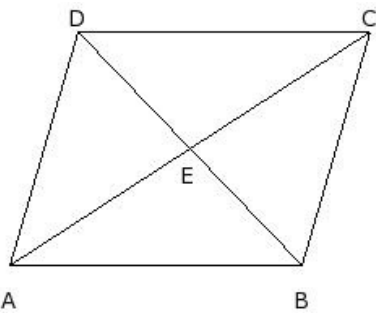




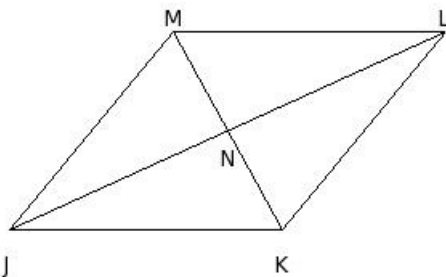
1. In the given parallelogram, which of the following statements are true?

- a) E is the mid point of \overline{AC}
- b) $BE = EA$
- c) $\angle BEA = \angle DEC$
- d) $\triangle EDA \cong \triangle EBC$
- e) $\triangle BDA \cong \triangle CDA$



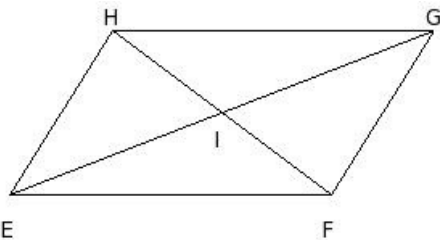
- (i) {b,a} (ii) {e,c} (iii) {b,a,c} (iv) {b,e,d} (v) {a,c,d}

2. In parallelogram JKLM, diagonals \overline{KM} and \overline{JL} intersect at N. Then $\overline{JK} \parallel$



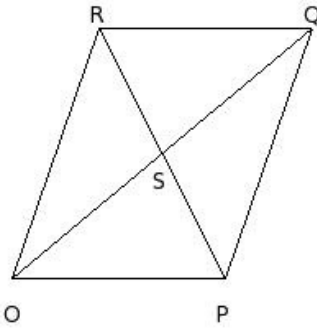
- (i) \overline{KM} (ii) \overline{LM} (iii) \overline{KL} (iv) \overline{MJ} (v) \overline{JL}

3. In parallelogram EFGH, diagonals \overline{FH} and \overline{EG} intersect at I. Then $\overline{GH} \parallel$



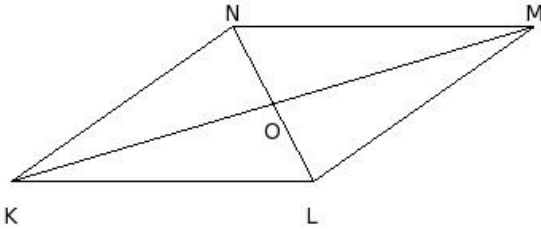
- (i) \overline{EG} (ii) \overline{EF} (iii) \overline{FH} (iv) \overline{HE} (v) \overline{FG}

4. In parallelogram OPQR, diagonals \overline{PR} and \overline{OQ} intersect at S. Then $\overline{RO} \parallel$



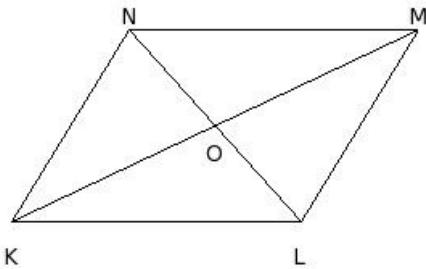
- (i) \overline{PQ} (ii) \overline{OP} (iii) \overline{OQ} (iv) \overline{PR} (v) \overline{QR}

5. In parallelogram KLMN, diagonals \overline{LN} and \overline{KM} intersect at O. Then $\overline{LM} \parallel$



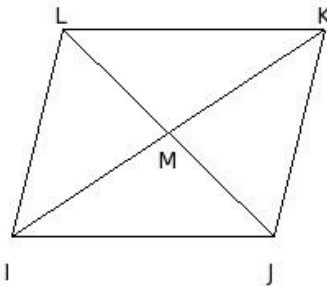
- (i) \overline{NK} (ii) \overline{KL} (iii) \overline{LN} (iv) \overline{MN} (v) \overline{KM}

6. In parallelogram KLMN, diagonals \overline{LN} and \overline{KM} intersect at O. Then $KL =$



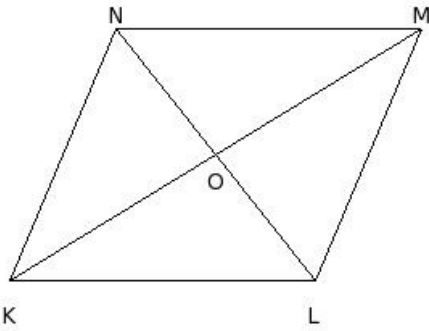
- (i) KM (ii) LN (iii) MN (iv) LM (v) NK

7. In parallelogram IJKL, diagonals \overline{JL} and \overline{IK} intersect at M. Then $KL =$



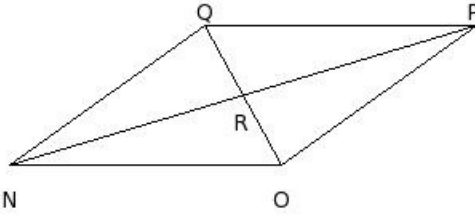
- (i) JL (ii) IK (iii) IJ (iv) LI (v) JK

8. In parallelogram KLMN, diagonals \overline{LN} and \overline{KM} intersect at O. Then NK =



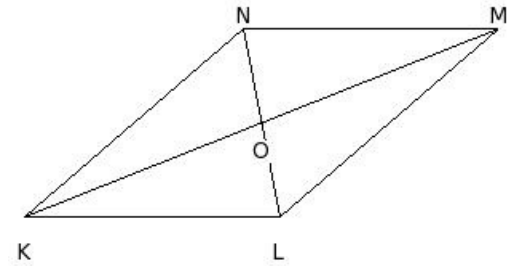
- (i) KL (ii) LN (iii) MN (iv) LM (v) KM

9. In parallelogram NOPQ, diagonals \overline{OQ} and \overline{NP} intersect at R. Then OP =



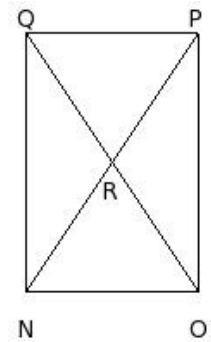
- (i) OQ (ii) NP (iii) NO (iv) QN (v) PQ

10. In parallelogram KLMN, diagonals \overline{LN} and \overline{KM} intersect at O. Then $\triangle NKL \cong$



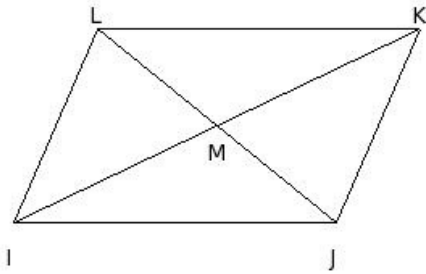
- (i) $\triangle KLM$ (ii) $\triangle MNO$ (iii) $\triangle MNK$ (iv) $\triangle KLO$ (v) $\triangle LMN$

11. In parallelogram NOPQ, diagonals \overline{OQ} and \overline{NP} intersect at R. Then $\triangle OPQ \cong$



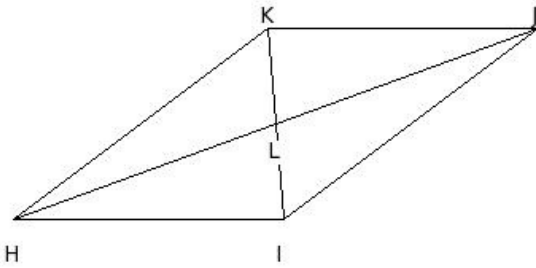
- (i) $\triangle PQR$ (ii) $\triangle NOP$ (iii) $\triangle NOR$ (iv) $\triangle PQN$ (v) $\triangle QNO$

12. In parallelogram IJKL, diagonals \overline{JL} and \overline{IK} intersect at M. Then $\triangle KLI \cong$



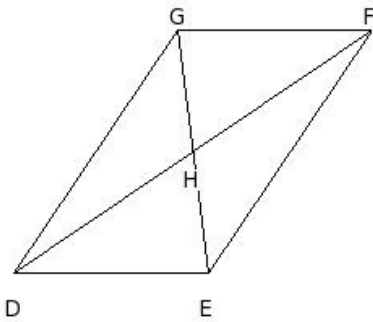
- (i) $\triangle JKL$ (ii) $\triangle LIJ$ (iii) $\triangle IJM$ (iv) $\triangle KLM$ (v) $\triangle IJK$

13. In parallelogram HIJK, diagonals \overline{IK} and \overline{HJ} intersect at L. Then $\triangle HIJ \cong$



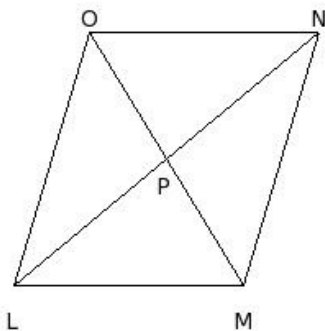
- (i) $\triangle KHI$ (ii) $\triangle JKL$ (iii) $\triangle JKH$ (iv) $\triangle HIL$ (v) $\triangle IJK$

14. In parallelogram DEFG, diagonals \overline{EG} and \overline{DF} intersect at H. Then $\angle GDE =$



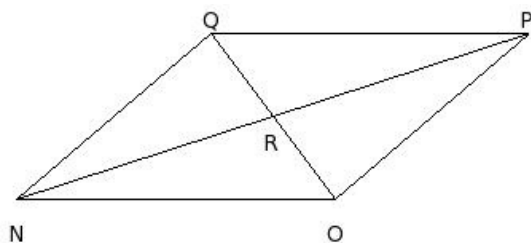
- (i) $\angle FGD$ (ii) $\angle DEH$ (iii) $\angle FGH$ (iv) $\angle DEF$ (v) $\angle EFG$

15. In parallelogram LMNO, diagonals \overline{MO} and \overline{LN} intersect at P. Then $\angle MNO =$



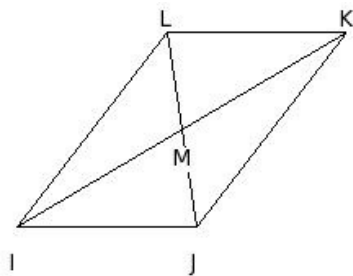
- (i) $\angle NOL$ (ii) $\angle OLM$ (iii) $\angle NOP$ (iv) $\angle LMP$ (v) $\angle LMN$

16. In parallelogram $NO PQ$, diagonals \overline{OQ} and \overline{NP} intersect at R . Then $\angle NOP =$



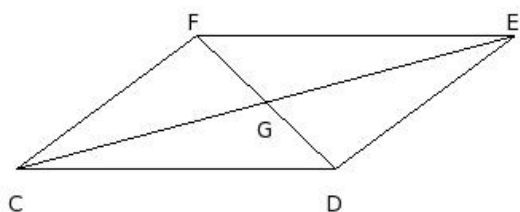
- (i) $\angle PQN$ (ii) $\angle OPQ$ (iii) $\angle NOR$ (iv) $\angle QNO$ (v) $\angle PQR$

17. In parallelogram $IJKL$, diagonals \overline{JL} and \overline{IK} intersect at M . Then $\angle KLI =$



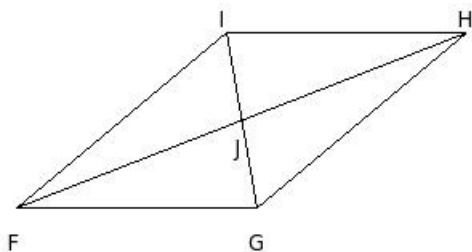
- (i) $\angle IJM$ (ii) $\angle LIJ$ (iii) $\angle KLM$ (iv) $\angle JKL$ (v) $\angle IJK$

18. In parallelogram $CDEF$, diagonals \overline{DF} and \overline{CE} intersect at G . Then $EG =$



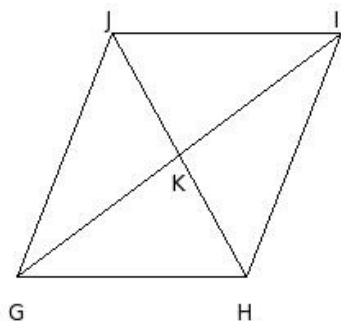
- (i) DG (ii) CG (iii) FC (iv) FG (v) DE

19. In parallelogram $FGHI$, diagonals \overline{GI} and \overline{FH} intersect at J . Then $FJ =$



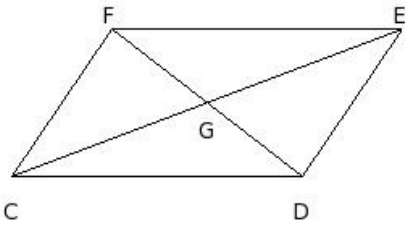
- (i) IJ (ii) HJ (iii) GJ (iv) IF (v) GH

20. In parallelogram $GHIJ$, diagonals \overline{HJ} and \overline{GI} intersect at K . Then $JK =$



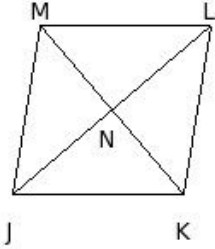
- (i) HK (ii) JG (iii) HI (iv) GK (v) IK

21. In parallelogram CDEF, diagonals \overline{DF} and \overline{CE} intersect at G. Then $DG =$



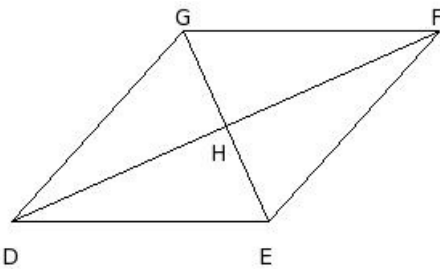
- (i) \overline{FG} (ii) \overline{DE} (iii) \overline{FC} (iv) \overline{CG} (v) \overline{EG}

22. In rhombus JKLM, diagonals \overline{JL} and \overline{KM} intersect at N. Then $\overline{JK} \parallel$



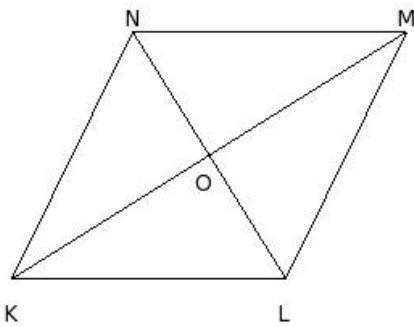
- (i) \overline{KL} (ii) \overline{LM} (iii) \overline{MJ} (iv) \overline{KM}

23. In rhombus DEFG, diagonals \overline{DF} and \overline{EG} intersect at H. Then $\overline{FG} \parallel$



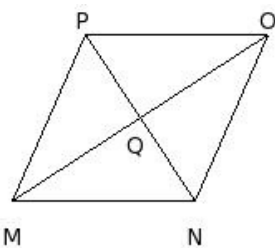
- (i) \overline{EF} (ii) \overline{DE} (iii) \overline{GD} (iv) \overline{EG}

24. In rhombus KLMN, diagonals \overline{KM} and \overline{LN} intersect at O. Then $\overline{NK} \parallel$



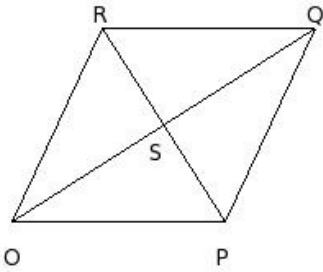
- (i) \overline{KL} (ii) \overline{LN} (iii) \overline{LM} (iv) \overline{MN}

25. In rhombus MNOP, diagonals \overline{MO} and \overline{NP} intersect at Q. Then $\overline{NO} \parallel$



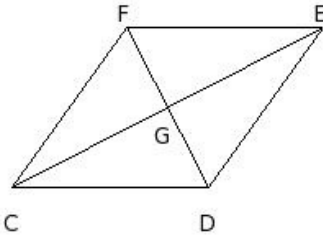
- (i) \overline{OP} (ii) \overline{PM} (iii) \overline{NP} (iv) \overline{MN}

26. In rhombus $OPQR$, diagonals \overline{OQ} and \overline{PR} intersect at S . Then $OP \cong$



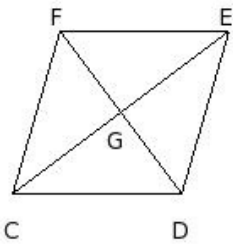
- (i) PQ (ii) RO (iii) QR (iv) PR

27. In rhombus $CDEF$, diagonals \overline{CE} and \overline{DF} intersect at G . Then $EF \cong$



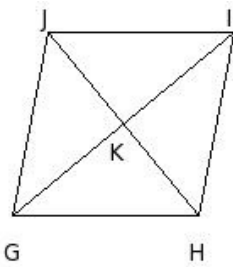
- (i) CD (ii) DF (iii) DE (iv) FC

28. In rhombus $CDEF$, diagonals \overline{CE} and \overline{DF} intersect at G . Then $FC \cong$



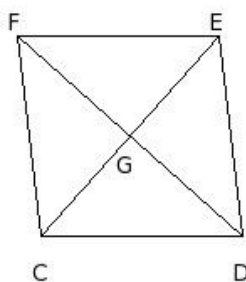
- (i) CD (ii) EF (iii) DE (iv) DF

29. In rhombus $GHIJ$, diagonals \overline{GI} and \overline{HJ} intersect at K . Then $HI \cong$



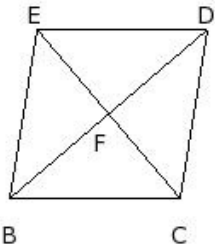
- (i) HJ (ii) GH (iii) JG (iv) IJ

30. In rhombus $CDEF$, diagonals \overline{CE} and \overline{DF} intersect at G . Then $\triangle FCD \cong$



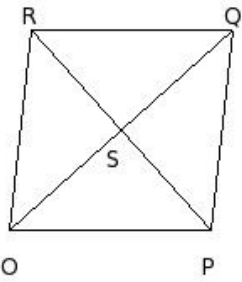
- (i) $\triangle GCD$ (ii) $\triangle CDE$ (iii) $\triangle DEF$ (iv) $\triangle EFC$

31. In rhombus BCDE, diagonals \overline{BD} and \overline{CE} intersect at F. Then $\triangle CDE \cong$



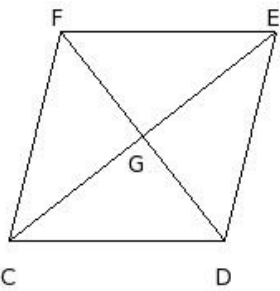
- (i) $\triangle EBC$ (ii) $\triangle FBC$ (iii) $\triangle DEB$ (iv) $\triangle BCD$

32. In rhombus OPQR, diagonals \overline{OQ} and \overline{PR} intersect at S. Then $\triangle QRO \cong$



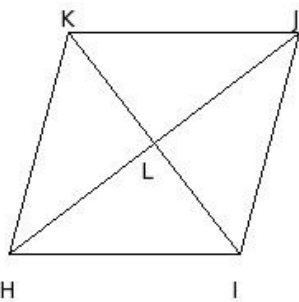
- (i) $\triangle PQR$ (ii) $\triangle ROP$ (iii) $\triangle SOP$ (iv) $\triangle OPQ$

33. In rhombus CDEF, diagonals \overline{CE} and \overline{DF} intersect at G. Then $\triangle CDE \cong$



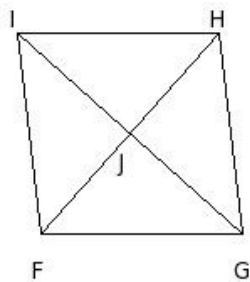
- (i) $\triangle GCD$ (ii) $\triangle DEF$ (iii) $\triangle FCD$ (iv) $\triangle EFC$

34. In rhombus HIJK, diagonals \overline{HJ} and \overline{IK} intersect at L. Then $\triangle LHI \cong$



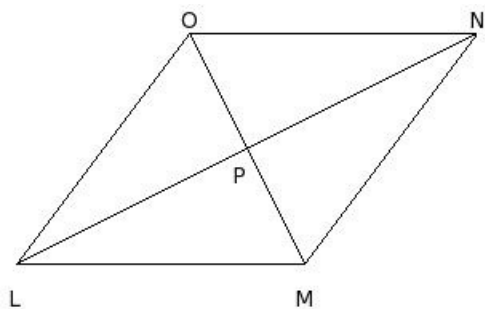
- (i) $\triangle LJI$ (ii) $\triangle KHI$ (iii) $\triangle LHK$ (iv) $\triangle LJK$

35. In rhombus $FGHI$, diagonals \overline{FH} and \overline{GI} intersect at J . Then $\triangle JHG \cong$



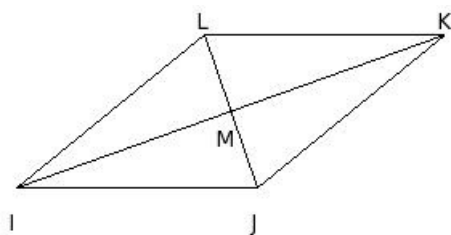
- (i) $\triangle JFG$ (ii) $\triangle JFI$ (iii) $\triangle JHI$ (iv) $\triangle IFG$

36. In rhombus $LMNO$, diagonals \overline{LN} and \overline{MO} intersect at P . Then $\triangle PNO \cong$



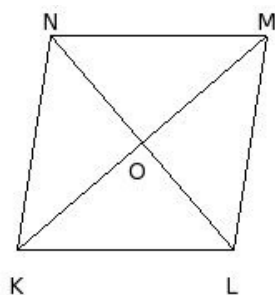
- (i) $\triangle OLM$ (ii) $\triangle PLM$ (iii) $\triangle PLO$ (iv) $\triangle PNM$

37. In rhombus $IJKL$, diagonals \overline{IK} and \overline{JL} intersect at M . Then $\triangle MIL \cong$



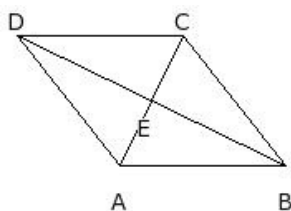
- (i) $\triangle MIJ$ (ii) $\triangle LIJ$ (iii) $\triangle MKL$ (iv) $\triangle MKJ$

38. In rhombus $KLMN$, diagonals \overline{KM} and \overline{LN} intersect at O . Then $\angle NKL =$



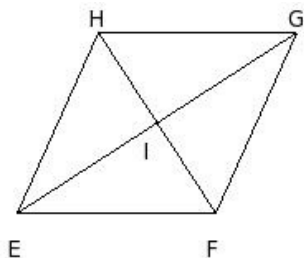
- (i) $\angle MNK$ (ii) $\angle LMN$ (iii) $\angle KLO$ (iv) $\angle KLM$

39. In rhombus $ABCD$, diagonals \overline{AC} and \overline{BD} intersect at E . Then $\angle BCD =$



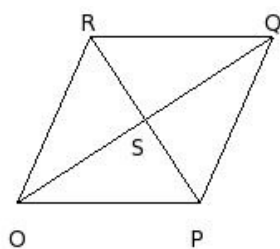
- (i) $\angle DAB$ (ii) $\angle CDA$ (iii) $\angle ABE$ (iv) $\angle ABC$

40. In rhombus EFGH, diagonals \overline{EG} and \overline{FH} intersect at I. Then $\angle EFG =$



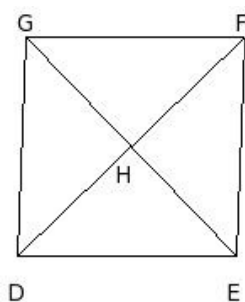
- (i) $\angle EFI$ (ii) $\angle GHE$ (iii) $\angle FGH$ (iv) $\angle HEF$

41. In rhombus OPQR, diagonals \overline{OQ} and \overline{PR} intersect at S. Then $\angle QRO =$



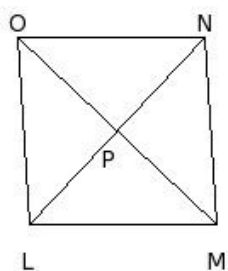
- (i) $\angle PQR$ (ii) $\angle OPS$ (iii) $\angle OPQ$ (iv) $\angle ROP$

42. In rhombus DEFG, diagonals \overline{DF} and \overline{EG} intersect at H. Then $\angle EHD \neq$



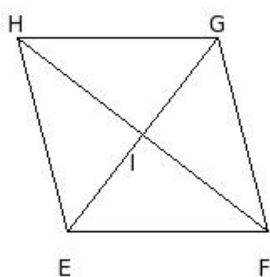
- (i) $\angle DHG$ (ii) $\angle FHE$ (iii) $\angle GHF$ (iv) $\angle GDE$

43. In rhombus LMNO, diagonals \overline{LN} and \overline{MO} intersect at P. Then $\angle OPN \neq$



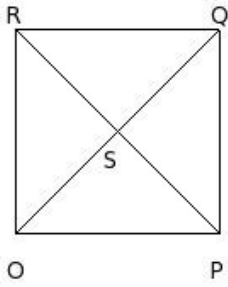
- (i) $\angle LPO$ (ii) $\angle MPL$ (iii) $\angle OLM$ (iv) $\angle NPM$

44. In rhombus EFGH, diagonals \overline{EG} and \overline{FH} intersect at I. Then $\angle EIH \neq$



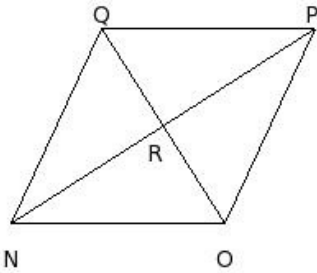
- (i) $\angle HEF$ (ii) $\angle GIF$ (iii) $\angle HIG$ (iv) $\angle FIE$

45. In rhombus $OPQR$, diagonals \overline{OQ} and \overline{PR} intersect at S . Then $\angle QSP \neq$



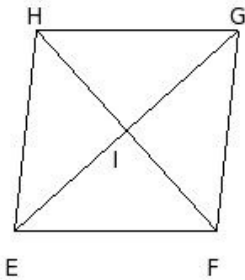
- (i) $\angle PSO$ (ii) $\angle ROP$ (iii) $\angle OSR$ (iv) $\angle RSQ$

46. In rhombus $NOPQ$, diagonals \overline{NP} and \overline{OQ} intersect at R . Then $\angle RNO \neq$



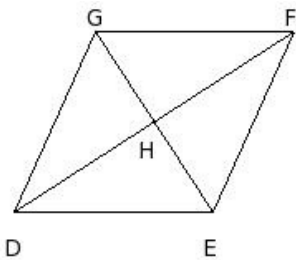
- (i) $\angle QNR$ (ii) $\angle RPQ$ (iii) $\angle NRQ$ (iv) $\angle OPR$

47. In rhombus $EFGH$, diagonals \overline{EG} and \overline{FH} intersect at I . Then $\angle IGH \neq$



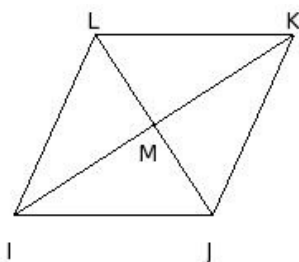
- (i) $\angle EIH$ (ii) $\angle HEI$ (iii) $\angle IEF$ (iv) $\angle FGI$

48. In rhombus $DEFG$, diagonals \overline{DF} and \overline{EG} intersect at H . Then $\angle GDH \neq$



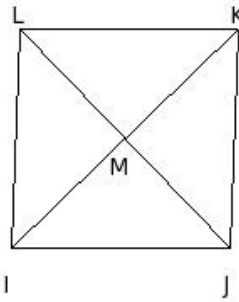
- (i) $\angle HFG$ (ii) $\angle HDE$ (iii) $\angle DHG$ (iv) $\angle EFH$

49. In rhombus $IJKL$, diagonals \overline{IK} and \overline{JL} intersect at M . Then $\angle JKM \neq$



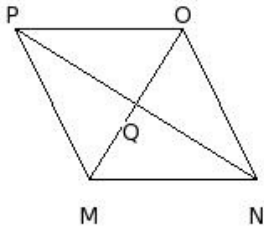
- (i) $\angle LIM$ (ii) $\angle IML$ (iii) $\angle MIJ$ (iv) $\angle MKL$

50. In rhombus IJKL, diagonals \overline{IK} and \overline{JL} intersect at M. Then $\angle MLI \neq$



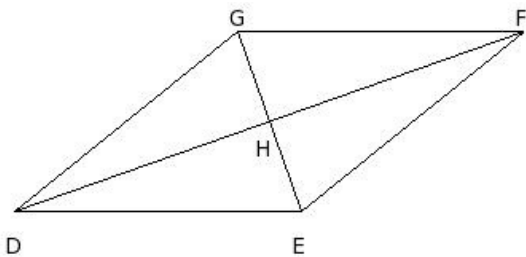
- (i) $\angle LMK$ (ii) $\angle MJK$ (iii) $\angle KLM$ (iv) $\angle IJM$

51. In rhombus MNOP, diagonals \overline{MO} and \overline{NP} intersect at Q. Then $\angle QNO \neq$



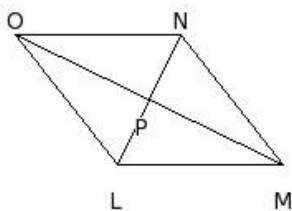
- (i) $\angle PQO$ (ii) $\angle OPQ$ (iii) $\angle MNQ$ (iv) $\angle QPM$

52. In rhombus DEFG, diagonals \overline{DF} and \overline{EG} intersect at H. Then $\angle DEH \neq$



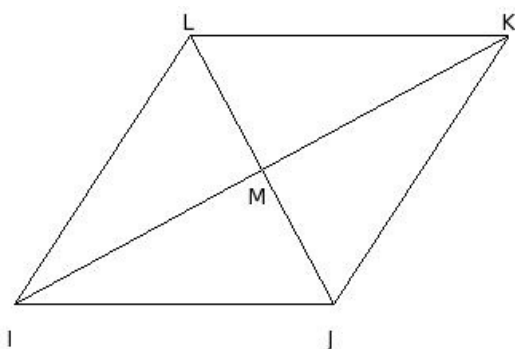
- (i) $\angle HEF$ (ii) $\angle GHF$ (iii) $\angle HGD$ (iv) $\angle FGH$

53. In rhombus LMNO, diagonals \overline{LN} and \overline{MO} intersect at P. Then $\angle NOP \neq$



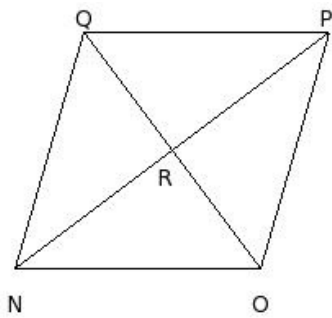
- (i) $\angle LMP$ (ii) $\angle OPN$ (iii) $\angle PMN$ (iv) $\angle POL$

54. In rhombus IJKL, diagonals \overline{IK} and \overline{JL} intersect at M. Then $LM =$



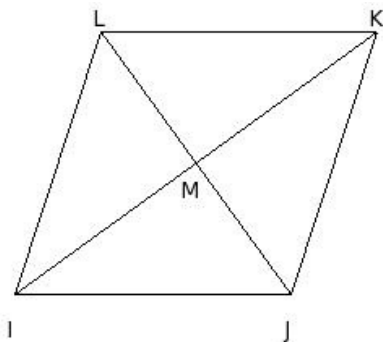
- (i) IM (ii) KM (iii) JM (iv) LI

55. In rhombus $NOPQ$, diagonals \overline{NP} and \overline{OQ} intersect at R . Then $OR =$



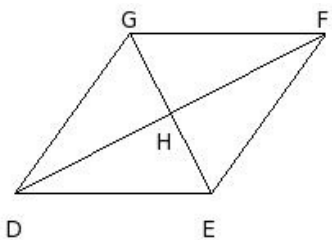
- (i) NR (ii) PR (iii) QR (iv) QN

56. In rhombus $IJKL$, diagonals \overline{IK} and \overline{JL} intersect at M . Then $IM =$



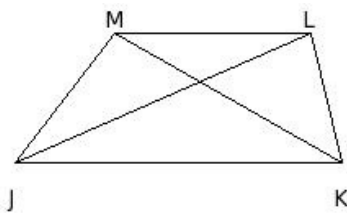
- (i) KM (ii) LI (iii) JM (iv) LM

57. In rhombus $DEFG$, diagonals \overline{DF} and \overline{EG} intersect at H . Then $FH =$



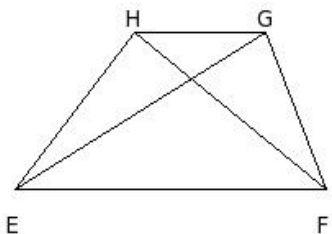
- (i) GD (ii) DH (iii) EH (iv) GH

58. In trapezium $JKLM$, \overline{JL} and \overline{KM} are diagonals. Then $\overline{JK} \parallel$



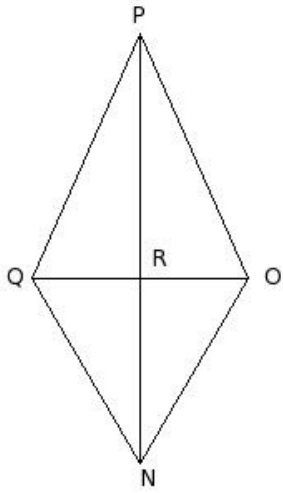
- (i) \overline{KL} (ii) \overline{MJ} (iii) \overline{LM} (iv) \overline{KM} (v) \overline{JL}

59. In trapezium $EFGH$, \overline{EG} and \overline{FH} are diagonals. Then $\overline{GH} \parallel$



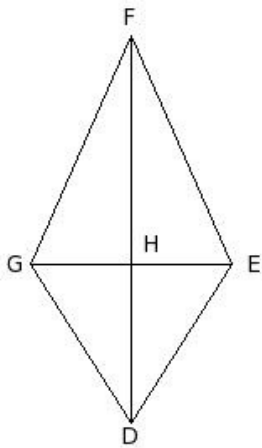
- (i) \overline{FH} (ii) \overline{HE} (iii) \overline{EF} (iv) \overline{FG} (v) \overline{EG}

60. In kite $NOPQ$, \overline{NP} and \overline{OQ} are diagonals. Then $NO =$



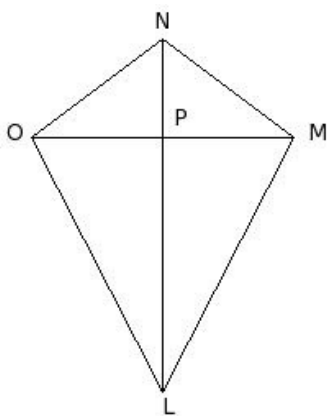
- (i) QN (ii) PQ (iii) OP (iv) NP (v) OQ

61. In kite $DEFG$, \overline{DF} and \overline{EG} are diagonals. Then $GD =$



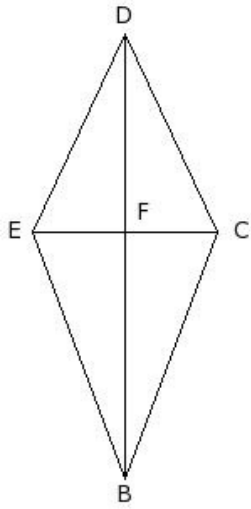
- (i) DF (ii) EF (iii) DE (iv) EG (v) FG

62. In kite $LMNO$, \overline{LN} and \overline{MO} are diagonals. Then $MN =$



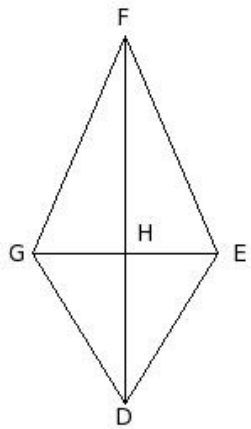
- (i) MO (ii) OL (iii) NO (iv) LM (v) LN

63. In kite $BCDE$, \overline{BD} and \overline{CE} are diagonals. Then $DE =$



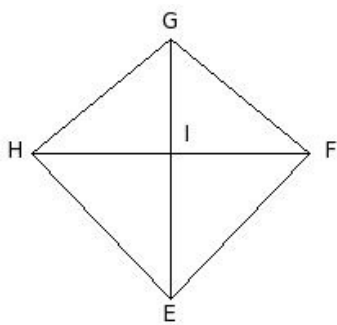
- (i) BD (ii) EB (iii) BC (iv) CE (v) CD

64. In kite $DEFG$, \overline{DF} and \overline{EG} are diagonals. Then $\angle DEF =$



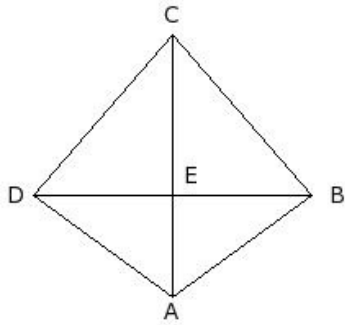
- (i) $\angle DGE$ (ii) $\angle DHG$ (iii) $\angle FGE$ (iv) $\angle DHE$ (v) $\angle FGD$

65. In kite $EFGH$, \overline{EG} and \overline{FH} are diagonals. Then $\angle GHE =$



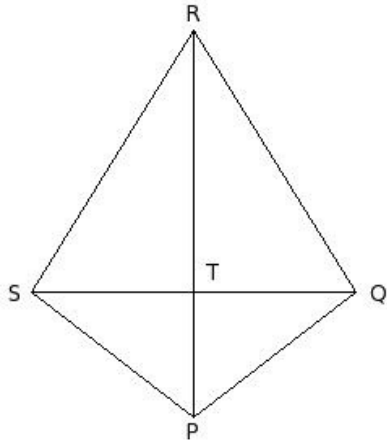
- (i) $\angle EFG$ (ii) $\angle EIH$ (iii) $\angle GHF$ (iv) $\angle EIF$ (v) $\angle EHF$

66. In kite $ABCD$, \overline{AC} and \overline{BD} are diagonals. Then $\angle AED =$



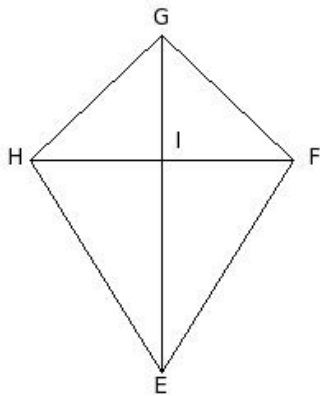
- (i) $\angle CDB$ (ii) $\angle CDA$ (iii) $\angle ADB$ (iv) $\angle AEB$ (v) $\angle ABC$

67. In kite $PQRS$, \overline{PR} and \overline{QS} are diagonals. Then $\angle PTQ =$



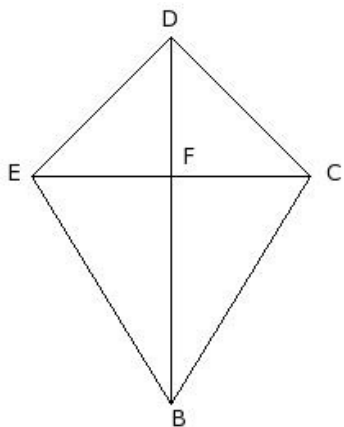
- (i) $\angle PSQ$ (ii) $\angle RSP$ (iii) $\angle PQR$ (iv) $\angle PTS$ (v) $\angle RSQ$

68. In kite $EFGH$, \overline{EG} and \overline{FH} are diagonals. Then $\triangle GHE \cong$



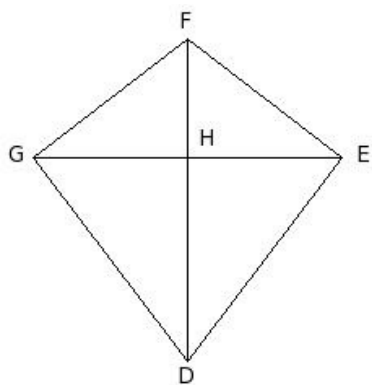
- (i) $\triangle HFG$ (ii) $\triangle GFE$ (iii) $\triangle IHE$ (iv) $\triangle IGF$ (v) $\triangle HFE$

69. In kite $BCDE$, \overline{BD} and \overline{CE} are diagonals. Then $\triangle DCB \cong$



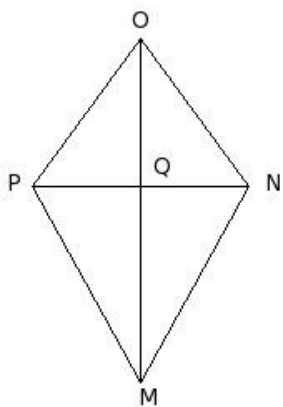
- (i) $\triangle ECD$ (ii) $\triangle FDC$ (iii) $\triangle ECB$ (iv) $\triangle FEB$ (v) $\triangle DEB$

70. In kite $DEFG$, \overline{DF} and \overline{EG} are diagonals. Then $\triangle HGD \cong$



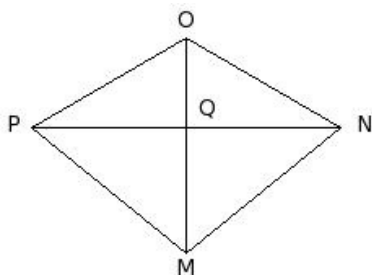
- (i) $\triangle GED$ (ii) $\triangle HFG$ (iii) $\triangle GEF$ (iv) $\triangle HFE$ (v) $\triangle HED$

71. In kite $MNOP$, \overline{MO} and \overline{NP} are diagonals. Then $\triangle QNM \cong$



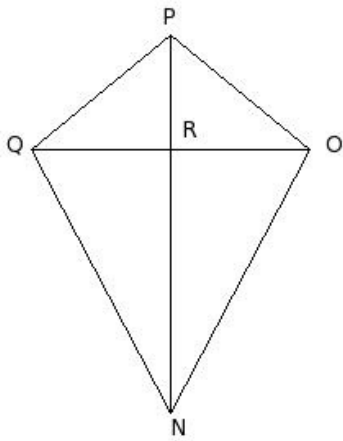
- (i) $\triangle QOP$ (ii) $\triangle QON$ (iii) $\triangle QPM$ (iv) $\triangle PNM$ (v) $\triangle PNO$

72. In kite $MNOP$, \overline{MO} and \overline{NP} are diagonals. Then $\triangle QOP \cong$



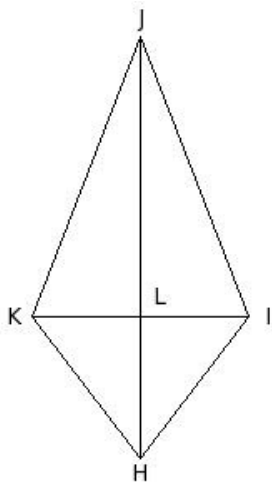
- (i) $\triangle PNO$ (ii) $\triangle QNM$ (iii) $\triangle QON$ (iv) $\triangle QPM$ (v) $\triangle PNM$

73. In kite $NOPQ$, \overline{NP} and \overline{OQ} are diagonals. Then $\triangle RPO \cong$



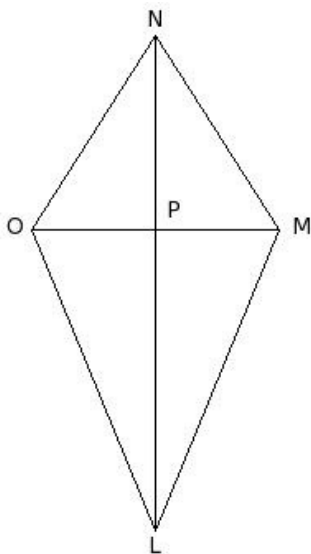
- (i) $\triangle QOP$ (ii) $\triangle RON$ (iii) $\triangle RPQ$ (iv) $\triangle QON$ (v) $\triangle RQN$

74. In kite $HIJK$, \overline{HJ} and \overline{IK} are diagonals. Then $\angle KHL =$



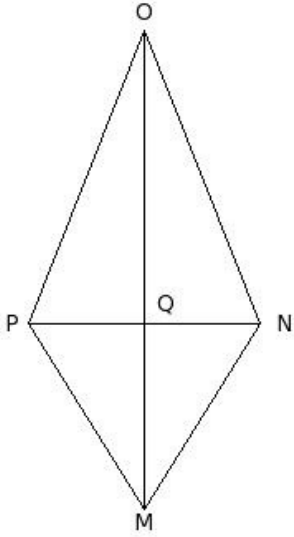
- (i) $\angle HLK$ (ii) $\angle LJI$ (iii) $\angle IHL$ (iv) $\angle LJK$ (v) $\angle KLJ$

75. In kite $LMNO$, \overline{LN} and \overline{MO} are diagonals. Then $\angle MLP =$



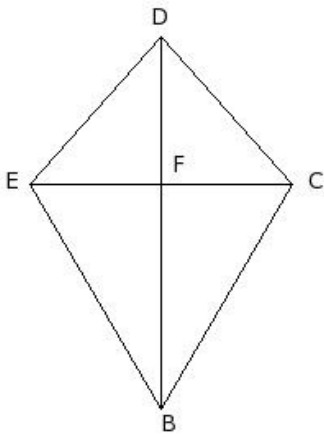
- (i) $\angle LPO$ (ii) $\angle OPN$ (iii) $\angle PNO$ (iv) $\angle OLP$ (v) $\angle PNM$

76. In kite $MNOP$, \overline{MO} and \overline{NP} are diagonals. Then $\angle QOP =$



- (i) $\angle PMQ$ (ii) $\angle MQP$ (iii) $\angle NMQ$ (iv) $\angle PQO$ (v) $\angle QON$

77. In kite $BCDE$, \overline{BD} and \overline{CE} are diagonals. Then $\angle FDC =$



- (i) $\angle BFE$ (ii) $\angle CBF$ (iii) $\angle EFD$ (iv) $\angle FDE$ (v) $\angle EBF$

Assignment Key

1) (v)	2) (ii)	3) (ii)	4) (i)	5) (i)	6) (iii)
7) (iii)	8) (iv)	9) (iv)	10) (v)	11) (v)	12) (v)
13) (iii)	14) (v)	15) (ii)	16) (i)	17) (v)	18) (ii)
19) (ii)	20) (i)	21) (i)	22) (ii)	23) (ii)	24) (iii)
25) (ii)	26) (iv)	27) (ii)	28) (iv)	29) (i)	30) (iii)
31) (i)	32) (iv)	33) (iv)	34) (ii)	35) (iv)	36) (i)
37) (ii)	38) (ii)	39) (i)	40) (ii)	41) (iii)	42) (iv)
43) (iii)	44) (i)	45) (ii)	46) (iii)	47) (i)	48) (iii)
49) (ii)	50) (i)	51) (i)	52) (ii)	53) (ii)	54) (iii)
55) (iii)	56) (i)	57) (ii)	58) (iii)	59) (iii)	60) (i)
61) (iii)	62) (iii)	63) (v)	64) (v)	65) (i)	66) (iv)
67) (iv)	68) (ii)	69) (v)	70) (v)	71) (iii)	72) (iii)
73) (iii)	74) (iii)	75) (iv)	76) (v)	77) (iv)	