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

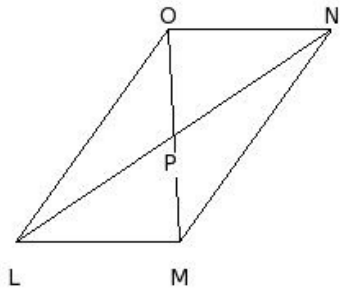
   a) $\triangle POL \cong \triangle PMN$

   b) $MP = OP$

   c) $\angle MNO = \angle OLM$

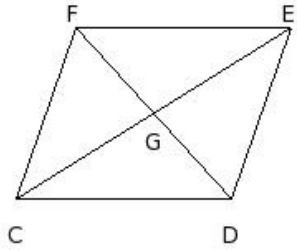
   d) $MP = PL$

   e) $\triangle MOL \cong \triangle NOL$



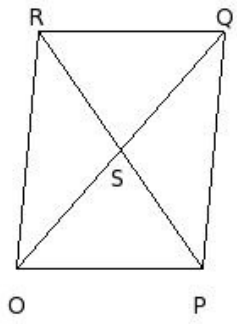
   (i) {d,e,c} (ii) {d,a} (iii) {d,a,b} (iv) {e,b} (v) {a,b,c}

2. In parallelogram $CDEF$, diagonals $\overline{DF}$ and $\overline{CE}$ intersect at G. Then $\overline{CD} \parallel$



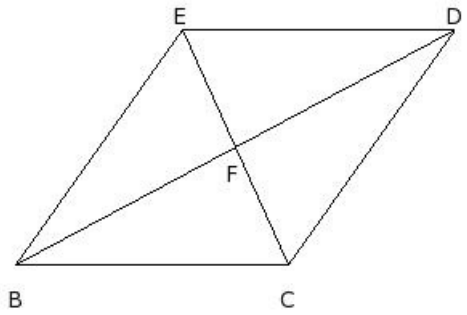
   (i) $\overline{CE}$ (ii) $\overline{DF}$ (iii) $\overline{DE}$ (iv) $\overline{EF}$ (v) $\overline{FC}$

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



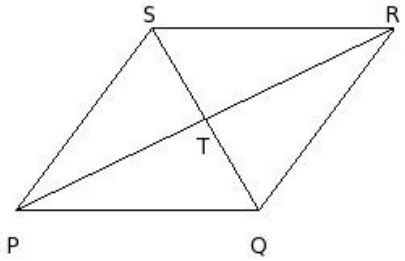
   (i) $\overline{PR}$ (ii) $\overline{OQ}$ (iii) $\overline{RO}$ (iv) $\overline{OP}$ (v) $\overline{PQ}$

4. In parallelogram BCDE, diagonals $\overline{CE}$ and $\overline{BD}$ intersect at F. Then $\overline{EB} \parallel$



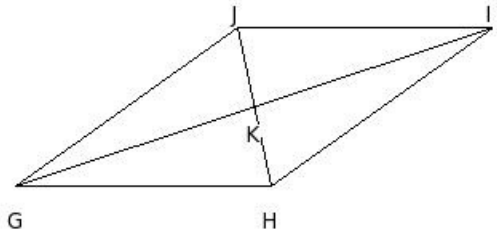
(i) $\overline{DE}$ (ii) $\overline{CE}$ (iii) $\overline{CD}$ (iv) $\overline{BD}$ (v) $\overline{BC}$

5. In parallelogram PQRS, diagonals $\overline{QS}$ and $\overline{PR}$ intersect at T. Then $\overline{QR} \parallel$



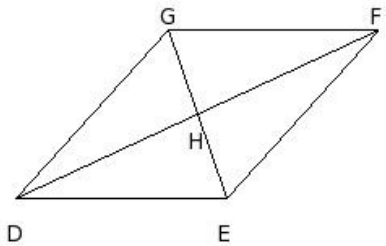
(i) $\overline{RS}$ (ii) $\overline{PQ}$ (iii) $\overline{QS}$ (iv) $\overline{SP}$ (v) $\overline{PR}$

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



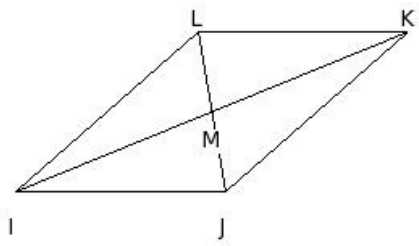
(i) GI (ii) HJ (iii) JG (iv) HI (v) IJ

7. In parallelogram DEFG, diagonals $\overline{EG}$ and $\overline{DF}$ intersect at H. Then FG =



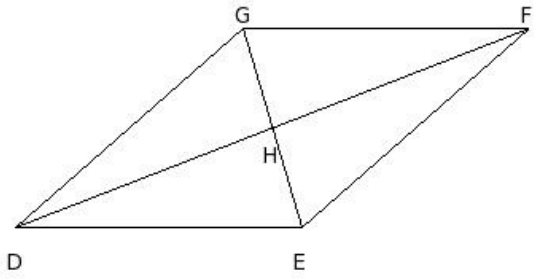
(i) DE (ii) GD (iii) EF (iv) EG (v) DF

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



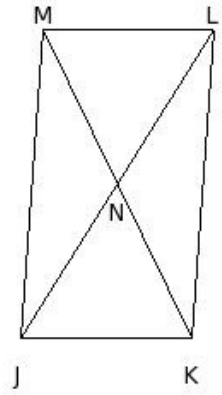
(i) JK (ii) KL (iii) IK (iv) IJ (v) JL

9. In parallelogram DEFG, diagonals $\overline{EG}$ and $\overline{DF}$ intersect at H. Then EF =



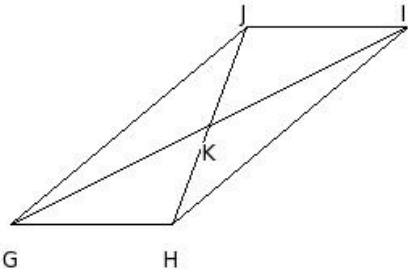
(i) GD (ii) EG (iii) DE (iv) DF (v) FG

10. In parallelogram JKLM, diagonals $\overline{KM}$ and $\overline{JL}$ intersect at N. Then $\triangle MJK \cong$



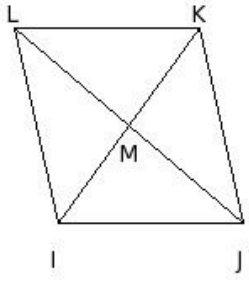
(i) $\triangle KLM$ (ii) $\triangle JKN$ (iii) $\triangle LMN$ (iv) $\triangle JKL$ (v) $\triangle LMJ$

11. In parallelogram GHIJ, diagonals $\overline{HJ}$ and $\overline{GI}$ intersect at K. Then $\triangle HIJ \cong$



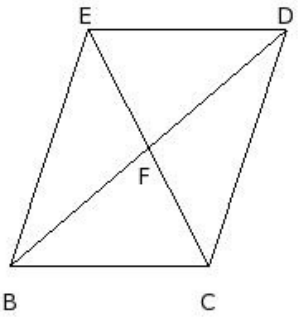
(i) $\triangle IJG$ (ii) $\triangle GHI$ (iii) $\triangle IJK$ (iv) $\triangle GHK$ (v) $\triangle JGH$

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



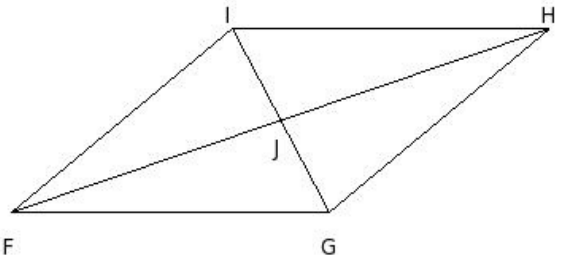
(i) $\triangle IJK$ (ii) $\triangle IJM$ (iii) $\triangle KLM$ (iv) $\triangle LIJ$ (v) $\triangle JKL$

13. In parallelogram BCDE, diagonals $\overline{CE}$ and $\overline{BD}$ intersect at F. Then $\triangle BCD \cong$



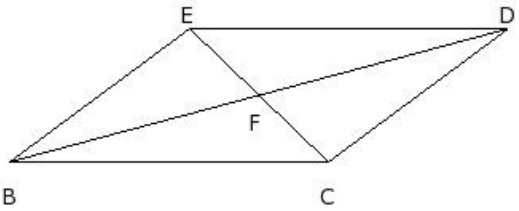
(i) $\triangle CDE$ (ii) $\triangle DEF$ (iii) $\triangle DEB$ (iv) $\triangle EBC$ (v) $\triangle BCF$

14. In parallelogram FGHI, diagonals $\overline{GI}$ and $\overline{FH}$ intersect at J. Then $\angle IFG =$



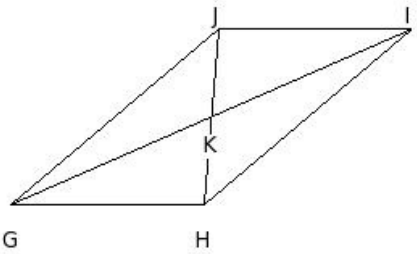
(i) $\angle FGH$ (ii) $\angle HIJ$ (iii) $\angle HIF$ (iv) $\angle FGJ$ (v) $\angle GHI$

15. In parallelogram BCDE, diagonals $\overline{CE}$ and $\overline{BD}$ intersect at F. Then $\angle CDE =$



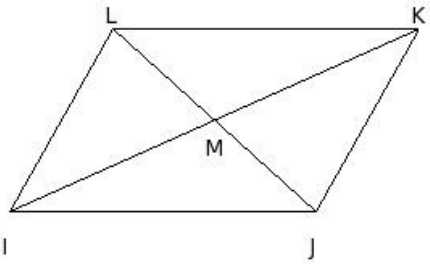
(i) $\angle EBC$ (ii) $\angle DEB$ (iii) $\angle BCF$ (iv) $\angle DEF$ (v) $\angle BCD$

16. In parallelogram GHIJ, diagonals $\overline{HJ}$ and $\overline{GI}$ intersect at K. Then $\angle GHI =$



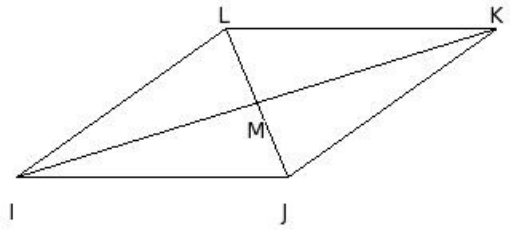
(i) $\angle JGH$ (ii) $\angle HIJ$ (iii) $\angle IJG$ (iv) $\angle IJK$ (v) $\angle GHK$

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



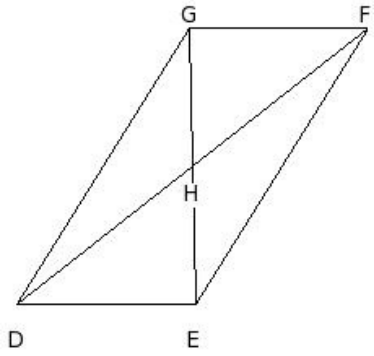
(i) $\angle KLM$ (ii) $\angle JKL$ (iii) $\angle LIJ$ (iv) $\angle IJK$ (v) $\angle IJM$

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



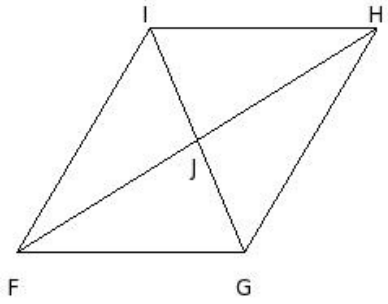
(i) IM (ii) LI (iii) JM (iv) LM (v) JK

19. In parallelogram DEFG, diagonals $\overline{EG}$ and $\overline{DF}$ intersect at H. Then DH =



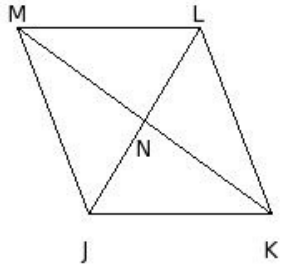
(i) FH (ii) GD (iii) EF (iv) GH (v) EH

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



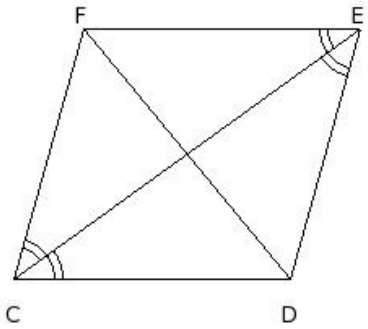
(i) FJ (ii) GJ (iii) HJ (iv) GH (v) IF

21. In parallelogram JKLM, diagonals $\overline{KM}$ and $\overline{JL}$ intersect at N. Then KN =



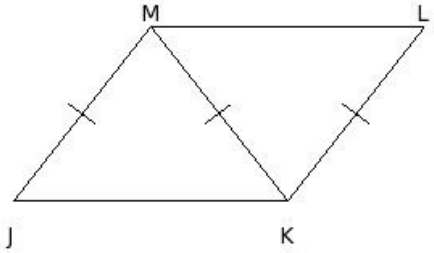
(i) KL (ii) MN (iii) MJ (iv) JN (v) LN

22. In the given figure, CDEF is a parallelogram. CE bisects ∠C & ∠E.
Given CE = 9 cm and DF = 6 cm, find CD



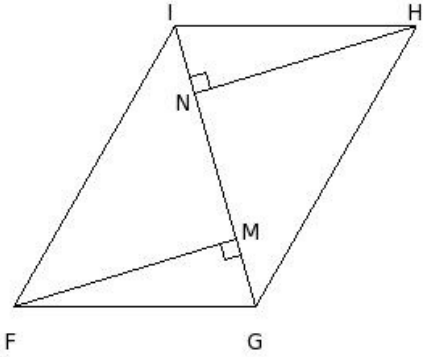
(i) 5.41 cm (ii) 4.41 cm (iii) 3.41 cm (iv) 7.41 cm (v) 6.41 cm

23. In the given figure, JKLM is a parallelogram. KM is the diagonal such that JM = KM = KL. Given ∠J = 52°, find ∠MKL



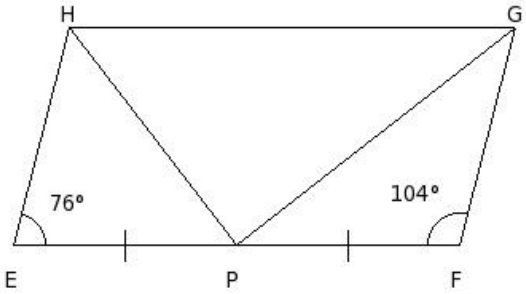
(i) 74° (ii) 77° (iii) 75° (iv) 78° (v) 76°

24. In the given figure, FGHI is a parallelogram. FM and HN are perpendicular to the diagonal GI. Given ∠NHI = 17°, find ∠IGF



(i) 72° (ii) 75° (iii) 73° (iv) 71° (v) 74°

25. In the given figure, EFGH is a parallelogram such that P is the mid-point of EF and EF = 2HE. Find ∠HPG



(i) 91° (ii) 88° (iii) 92° (iv) 90° (v) 89°

Assignment Key

1) (v)	2) (iv)	3) (iv)	4) (iii)	5) (iv)	6) (v)
7) (i)	8) (i)	9) (i)	10) (i)	11) (v)	12) (i)
13) (iii)	14) (v)	15) (i)	16) (iii)	17) (iv)	18) (i)
19) (i)	20) (ii)	21) (ii)	22) (i)	23) (v)	24) (iii)
25) (iv)					

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