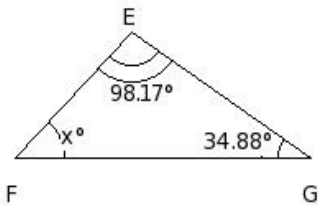




1. Two angles of a triangle measure  $69^\circ$  and  $51^\circ$  respectively. Find the measure of the third angle of the triangle  
(i)  $58^\circ$  (ii)  $61^\circ$  (iii)  $59^\circ$  (iv)  $60^\circ$  (v)  $62^\circ$

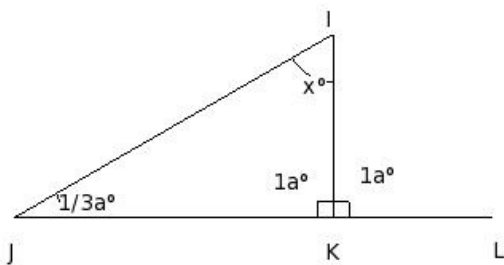
2. The angles of a triangle ABC are in the ratio 3 : 2 : 4. Find the measure of each angle of the triangle  
(i)  $A=62^\circ, B=40^\circ, C=78^\circ$  (ii)  $A=60^\circ, B=38^\circ, C=82^\circ$  (iii)  $A=60^\circ, B=40^\circ, C=80^\circ$  (iv)  $A=58^\circ, B=42^\circ, C=80^\circ$   
(v)  $A=58^\circ, B=40^\circ, C=82^\circ$

3. Find the unknown angle from the following figure



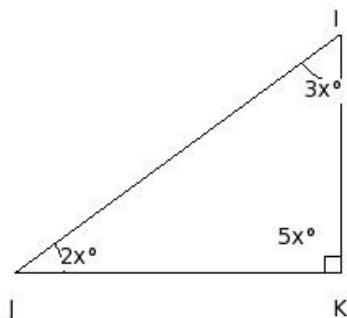
- (i)  $x=45.95^\circ$  (ii)  $x=47.95^\circ$  (iii)  $x=44.95^\circ$  (iv)  $x=46.95^\circ$  (v)  $x=48.95^\circ$

4. In the given figure,  $\triangle IJK$  in which side JK has been produced to L. If  $\angle KIJ = x^\circ$ ,  $\angle IJK = (1/3a)^\circ$ ,  $\angle JKI = (1a)^\circ$  and  $\angle IKL = (1a)^\circ$ , find the values of a and x.



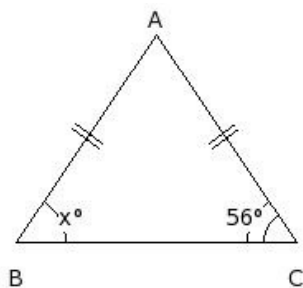
- (i)  $a=90^\circ, x=60^\circ$  (ii)  $a=92^\circ, x=62^\circ$  (iii)  $a=91^\circ, x=61^\circ$  (iv)  $a=88^\circ, x=58^\circ$  (v)  $a=89^\circ, x=59^\circ$

5. Find the angles of the triangle



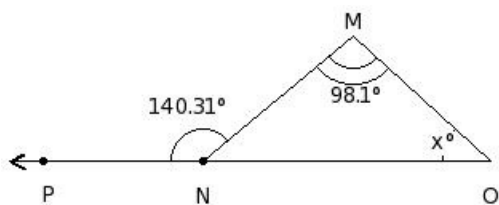
- (i)  $I=54^\circ, J=36^\circ, K=90^\circ$  (ii)  $I=52^\circ, J=36^\circ, K=92^\circ$  (iii)  $I=54^\circ, J=34^\circ, K=92^\circ$  (iv)  $I=52^\circ, J=38^\circ, K=90^\circ$   
(v)  $I=56^\circ, J=36^\circ, K=88^\circ$

6. Calculate the value of  $x$  in the following figure



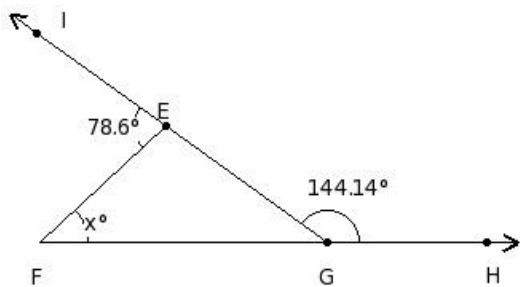
- (i)  $x=58^\circ$  (ii)  $x=56^\circ$  (iii)  $x=54^\circ$  (iv)  $x=55^\circ$  (v)  $x=57^\circ$

7. Calculate the value of  $x$  in the following figure



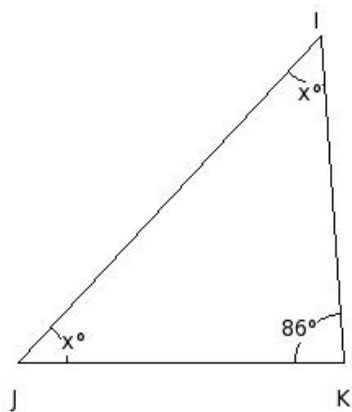
- (i)  $x=44.21^\circ$  (ii)  $x=42.21^\circ$  (iii)  $x=40.21^\circ$  (iv)  $x=43.21^\circ$  (v)  $x=41.21^\circ$

8. Find the unknown marked angle in the following figure



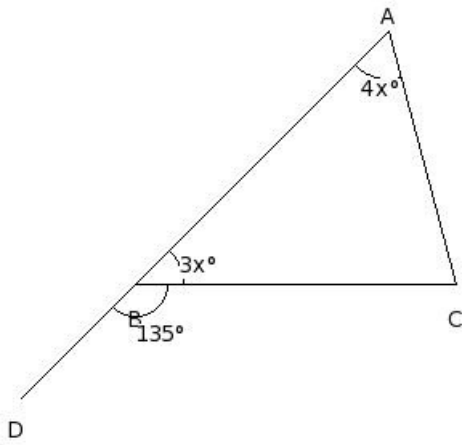
- (i)  $x=41.74^\circ$  (ii)  $x=43.74^\circ$  (iii)  $x=44.74^\circ$  (iv)  $x=42.74^\circ$  (v)  $x=40.74^\circ$

9. Find the unknown angles in the following figure



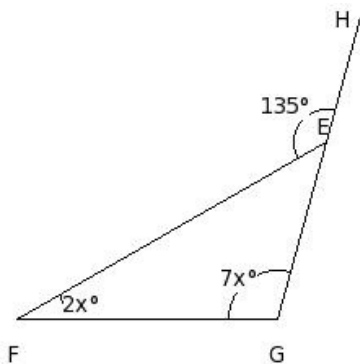
- (i)  $I=49^\circ, J=49^\circ$  (ii)  $I=46^\circ, J=46^\circ$  (iii)  $I=48^\circ, J=48^\circ$  (iv)  $I=45^\circ, J=45^\circ$  (v)  $I=47^\circ, J=47^\circ$

10. In the following figure, one side of a triangle has been produced. Find all the angles of the triangle



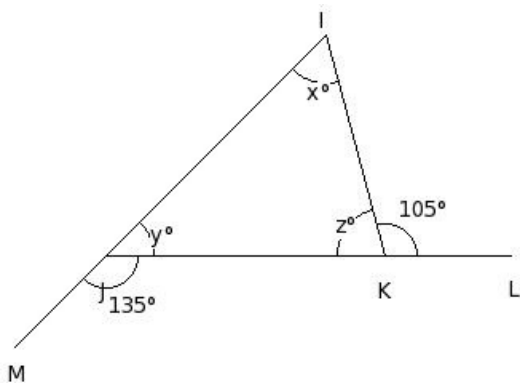
- (i)  $A=60^\circ, B=43^\circ, C=77^\circ$  (ii)  $A=62^\circ, B=45^\circ, C=73^\circ$  (iii)  $A=58^\circ, B=45^\circ, C=77^\circ$  (iv)  $A=58^\circ, B=47^\circ, C=75^\circ$   
 (v)  $A=60^\circ, B=45^\circ, C=75^\circ$

11. In the following figure, one side of a triangle has been produced. Find all the angles of the triangle.



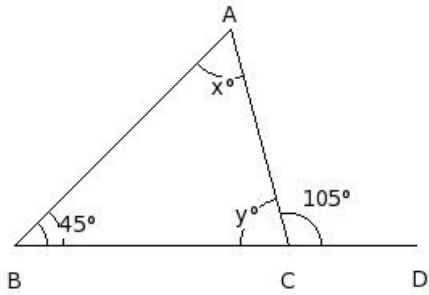
- (i)  $E=45^\circ, F=28^\circ, G=107^\circ$  (ii)  $E=47^\circ, F=30^\circ, G=103^\circ$  (iii)  $E=43^\circ, F=30^\circ, G=107^\circ$   
 (iv)  $E=45^\circ, F=30^\circ, G=105^\circ$  (v)  $E=43^\circ, F=32^\circ, G=105^\circ$

12. In the following figure, two sides of a triangle have been produced. Find all the angles of the triangle.



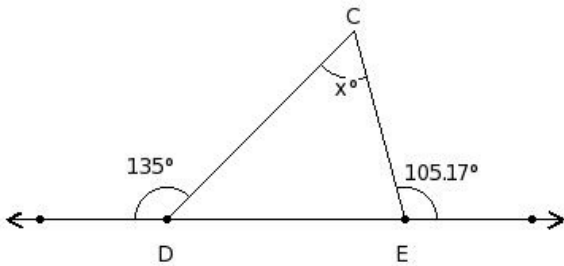
- (i)  $x=62^\circ, y=45^\circ, z=73^\circ$  (ii)  $x=58^\circ, y=47^\circ, z=75^\circ$  (iii)  $x=58^\circ, y=45^\circ, z=77^\circ$  (iv)  $x=60^\circ, y=43^\circ, z=77^\circ$   
 (v)  $x=60^\circ, y=45^\circ, z=75^\circ$

13. In the following figure, one side of a triangle has been produced. Find the values of  $x$  and  $y$ .



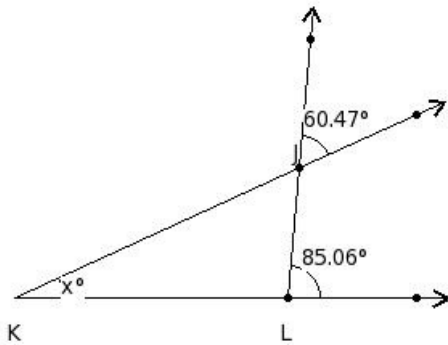
- (i)  $x=60^\circ, y=75^\circ$  (ii)  $x=61^\circ, y=76^\circ$  (iii)  $x=58^\circ, y=73^\circ$  (iv)  $x=59^\circ, y=74^\circ$  (v)  $x=62^\circ, y=77^\circ$

14. Calculate the value of the lettered angle in the following figure



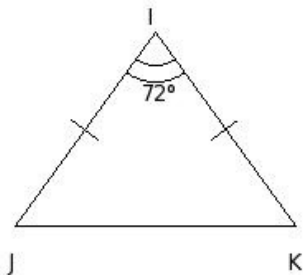
- (i)  $x=61.17^\circ$  (ii)  $x=62.17^\circ$  (iii)  $x=58.17^\circ$  (iv)  $x=60.17^\circ$  (v)  $x=59.17^\circ$

15. Calculate the value of the lettered angle in the following figure



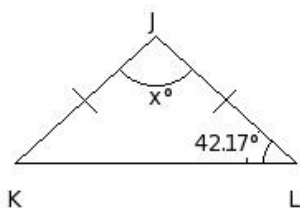
- (i)  $x=26.59^\circ$  (ii)  $x=23.59^\circ$  (iii)  $x=22.59^\circ$  (iv)  $x=24.59^\circ$  (v)  $x=25.59^\circ$

16. In the given triangle,  $\angle I = 72^\circ$ . Find the measure of  $\angle J$  and  $\angle K$



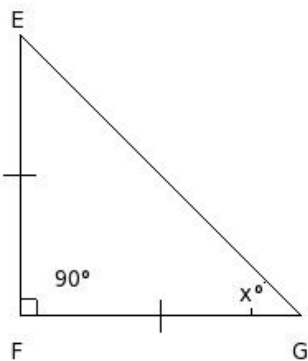
- (i)  $\angle J = \angle K = 56^\circ$  (ii)  $\angle J = \angle K = 54^\circ$  (iii)  $\angle J = \angle K = 53^\circ$  (iv)  $\angle J = \angle K = 55^\circ$  (v)  $\angle J = \angle K = 52^\circ$

17. Find the unknown angle in the following figure



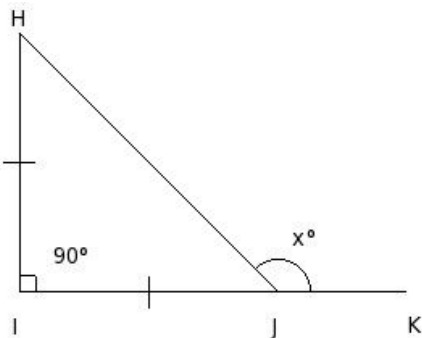
- (i)  $x=94.66^\circ$  (ii)  $x=95.66^\circ$  (iii)  $x=93.66^\circ$  (iv)  $x=97.66^\circ$  (v)  $x=96.66^\circ$

18. Find the unknown angle in the following figure



- (i)  $x=47^\circ$  (ii)  $x=46^\circ$  (iii)  $x=44^\circ$  (iv)  $x=43^\circ$  (v)  $x=45^\circ$

19. Find the unknown angle in the following figure



- (i)  $x=136^\circ$  (ii)  $x=134^\circ$  (iii)  $x=135^\circ$  (iv)  $x=137^\circ$  (v)  $x=133^\circ$

20. In  $\triangle CDE$ , if  $\angle C = 65^\circ$  and  $\angle D = 70^\circ$ , find the measure of  $\angle E$

- (i)  $E=44^\circ$  (ii)  $E=43^\circ$  (iii)  $E=45^\circ$  (iv)  $E=47^\circ$  (v)  $E=46^\circ$

21. In  $\triangle HIJ$ , if  $\angle H = 30^\circ$  and  $\angle I = \angle J$ , find the measure of each of the equal angles of the triangle

- (i)  $76^\circ$  (ii)  $75^\circ$  (iii)  $77^\circ$  (iv)  $74^\circ$  (v)  $73^\circ$

22. One angle of a triangle measures  $54^\circ$  and the other two angles are in the ratio 5 : 9. Find these angles.

- (i)  $B=44^\circ, C=80^\circ$  (ii)  $B=46^\circ, C=82^\circ$  (iii)  $B=47^\circ, C=83^\circ$  (iv)  $B=45^\circ, C=81^\circ$  (v)  $B=43^\circ, C=79^\circ$

23. In a right-angled triangle, the two acute angles are in the ratio 1 : 1. Find these angles.

- (i)  $A=46^\circ, C=46^\circ$  (ii)  $A=47^\circ, C=47^\circ$  (iii)  $A=43^\circ, C=43^\circ$  (iv)  $A=44^\circ, C=44^\circ$  (v)  $A=45^\circ, C=45^\circ$

24. One of the two equal angles of an isosceles triangle measures  $54^\circ$ . Find the measure of each angle of the triangle.

- (i)  $A=54^\circ, B=54^\circ, C=72^\circ$  (ii)  $A=52^\circ, B=56^\circ, C=72^\circ$  (iii)  $A=56^\circ, B=54^\circ, C=70^\circ$  (iv)  $A=54^\circ, B=52^\circ, C=74^\circ$   
(v)  $A=52^\circ, B=54^\circ, C=74^\circ$

25. Find the measure of each of the two equal angles of an isosceles right-angled triangle.

- (i)  $46^\circ$  (ii)  $43^\circ$  (iii)  $47^\circ$  (iv)  $44^\circ$  (v)  $45^\circ$

26. If all the three angles of a triangle are of the same measure, find the measure of each of the angles.

- (i)  $61^\circ$  (ii)  $60^\circ$  (iii)  $58^\circ$  (iv)  $59^\circ$  (v)  $62^\circ$

27. In a right-angled triangle if one of the acute angles is  $65^\circ$ , find the measure of the other acute angle.

- (i)  $24^\circ$  (ii)  $23^\circ$  (iii)  $26^\circ$  (iv)  $27^\circ$  (v)  $25^\circ$

28. The vertical angle of an isosceles triangle is twice the sum of its base angles. Find each angle of the triangle.

(i)  $A=120^\circ, B=30^\circ, C=30^\circ$  (ii)  $A=118^\circ, B=30^\circ, C=32^\circ$  (iii)  $A=118^\circ, B=32^\circ, C=30^\circ$

(iv)  $A=120^\circ, B=28^\circ, C=32^\circ$  (v)  $A=122^\circ, B=30^\circ, C=28^\circ$

29. In an isosceles triangle, each base angle is four times its vertical angle. Find each angle of the triangle.

(i)  $A=18^\circ, B=82^\circ, C=80^\circ$  (ii)  $A=20^\circ, B=78^\circ, C=82^\circ$  (iii)  $A=18^\circ, B=80^\circ, C=82^\circ$  (iv)  $A=22^\circ, B=80^\circ, C=78^\circ$

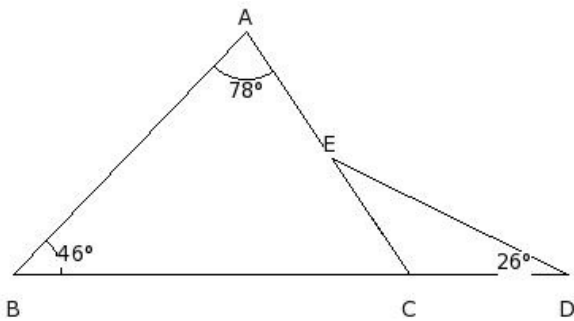
(v)  $A=20^\circ, B=80^\circ, C=80^\circ$

30. The ratio between the base angle and the vertical angle of an isosceles triangle is 13 : 10. Find each angle of the triangle

(i)  $A=50^\circ, B=65^\circ, C=65^\circ$  (ii)  $A=50^\circ, B=63^\circ, C=67^\circ$  (iii)  $A=48^\circ, B=67^\circ, C=65^\circ$  (iv)  $A=52^\circ, B=65^\circ, C=63^\circ$

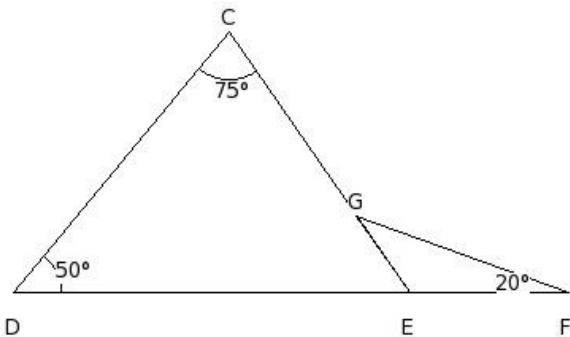
(v)  $A=48^\circ, B=65^\circ, C=67^\circ$

31. In the given figure, find  $\angle BCA$



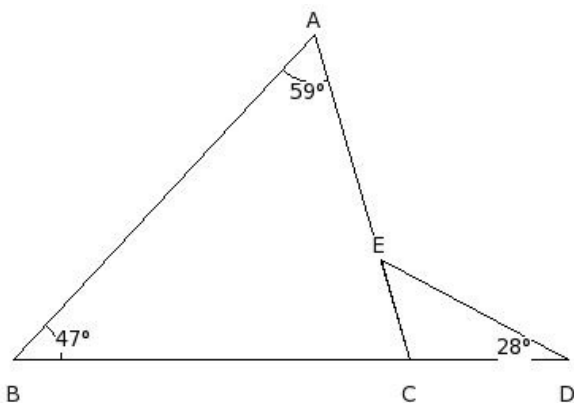
(i)  $56^\circ$  (ii)  $58^\circ$  (iii)  $54^\circ$  (iv)  $57^\circ$  (v)  $55^\circ$

32. In the given figure, find  $\angle GEF$



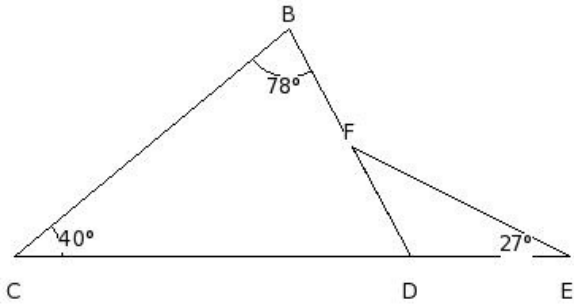
(i)  $125^\circ$  (ii)  $123^\circ$  (iii)  $126^\circ$  (iv)  $127^\circ$  (v)  $124^\circ$

33. In the given figure, find  $\angle DEC$



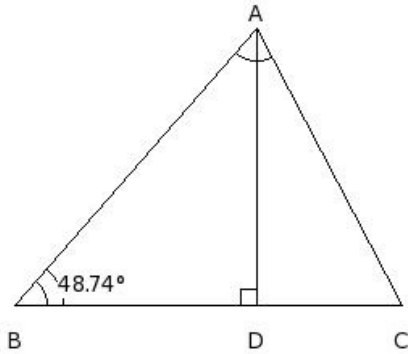
(i)  $46^\circ$  (ii)  $48^\circ$  (iii)  $47^\circ$  (iv)  $44^\circ$  (v)  $45^\circ$

34. In the given figure, find  $\angle BFE$



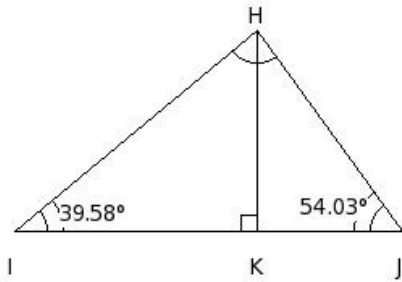
- (i)  $145^\circ$  (ii)  $144^\circ$  (iii)  $146^\circ$  (iv)  $147^\circ$  (v)  $143^\circ$

35. In the given figure, if  $DA \perp BC$  and  $\angle ABD = 48.74^\circ$ , find  $\angle DAB$



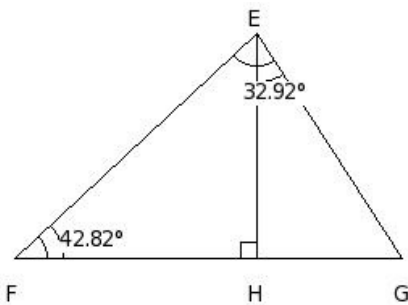
- (i)  $40.26^\circ$  (ii)  $42.26^\circ$  (iii)  $39.26^\circ$  (iv)  $43.26^\circ$  (v)  $41.26^\circ$

36. In the given figure, if  $KH \perp IJ$  and  $\angle HIK = 39.58^\circ$ , find  $\angle JHK$



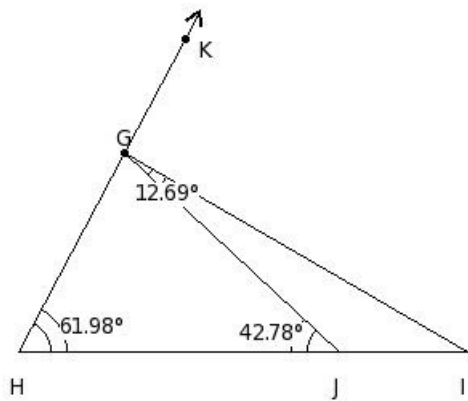
- (i)  $37.97^\circ$  (ii)  $35.97^\circ$  (iii)  $36.97^\circ$  (iv)  $34.97^\circ$  (v)  $33.97^\circ$

37. In the given figure, if  $HE \perp FG$  and  $\angle EFH = 42.82^\circ$ , find  $\angle HGE$



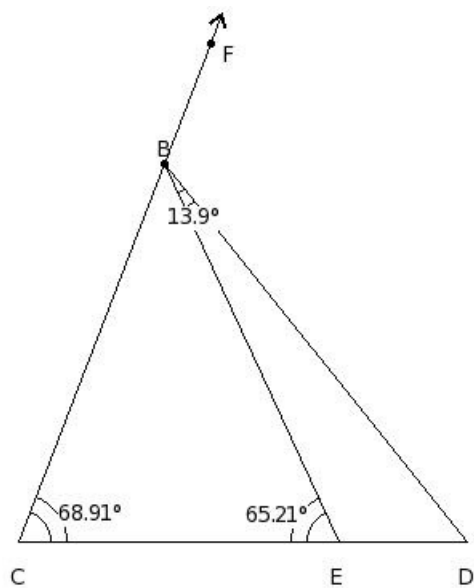
- (i)  $56.08^\circ$  (ii)  $55.08^\circ$  (iii)  $57.08^\circ$  (iv)  $59.08^\circ$  (v)  $58.08^\circ$

38. In below given figure, find  $\angle GJI$



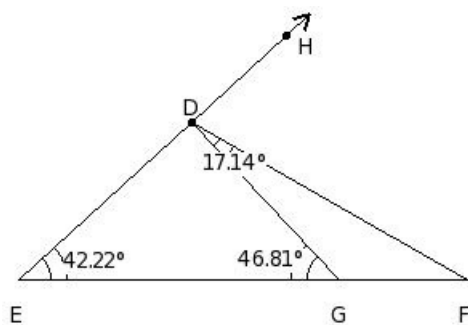
- (i)  $139.22^\circ$  (ii)  $135.22^\circ$  (iii)  $136.22^\circ$  (iv)  $137.22^\circ$  (v)  $138.22^\circ$

39. In below given figure, find  $\angle EBC$



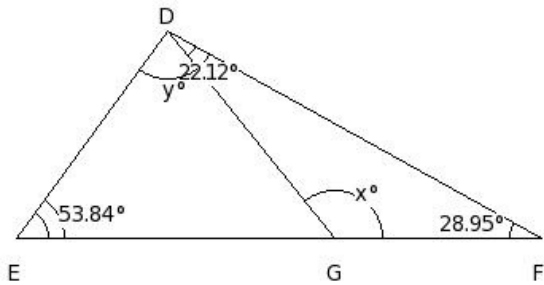
- (i)  $43.88^\circ$  (ii)  $47.88^\circ$  (iii)  $46.88^\circ$  (iv)  $45.88^\circ$  (v)  $44.88^\circ$

40. In below given figure, find  $\angle FDH$



- (i)  $71.89^\circ$  (ii)  $73.89^\circ$  (iii)  $72.89^\circ$  (iv)  $69.89^\circ$  (v)  $70.89^\circ$

41. In the given figure, find the values of  $x$  and  $y$ .

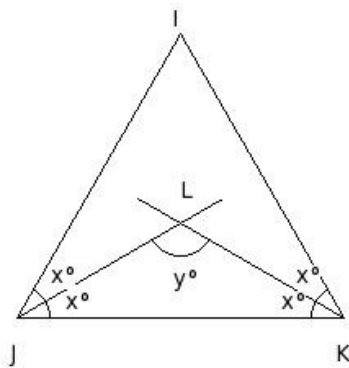


- (i)  $x=128.93^\circ, y=75.09^\circ$  (ii)  $x=127.93^\circ, y=74.09^\circ$  (iii)  $x=130.93^\circ, y=77.09^\circ$  (iv)  $x=126.93^\circ, y=73.09^\circ$   
 (v)  $x=129.93^\circ, y=76.09^\circ$

42. Each of the two equal angles of an isosceles triangle is half the third angle. Find the angles of the triangle

- (i)  $X=43^\circ, Y=92^\circ, Z=45^\circ$  (ii)  $X=45^\circ, Y=90^\circ, Z=45^\circ$  (iii)  $X=45^\circ, Y=88^\circ, Z=47^\circ$  (iv)  $X=43^\circ, Y=90^\circ, Z=47^\circ$   
 (v)  $X=47^\circ, Y=90^\circ, Z=43^\circ$

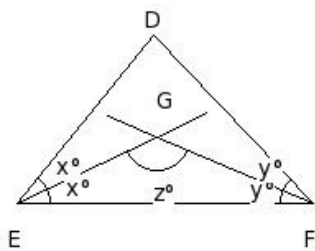
43. In the given figure,  $\triangle IJK$  is a triangle in which  $\angle I = \angle J = \angle K$ . This bisectors of  $\angle J$  and  $\angle K$  intersect at  $L$ . Find  $\angle L =$



- (i)  $121^\circ$  (ii)  $122^\circ$  (iii)  $118^\circ$  (iv)  $119^\circ$  (v)  $120^\circ$

44. In the given figure,  $\triangle DEF$  is a triangle in which  $\angle E = 50.86^\circ$  and  $\angle F = 46.44^\circ$ .

If ' $z$ ' is the angle between the bisector of  $\angle E$  and  $\angle F$ , then find  $z$ .

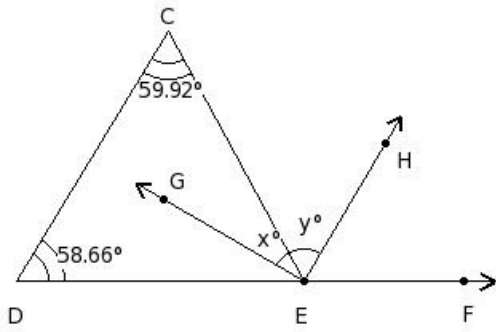


- (i)  $132.35^\circ$  (ii)  $130.35^\circ$  (iii)  $131.35^\circ$  (iv)  $133.35^\circ$  (v)  $129.35^\circ$

In the given figure,  $\angle C = 59.92^\circ$  and  $\angle D = 58.66^\circ$ .

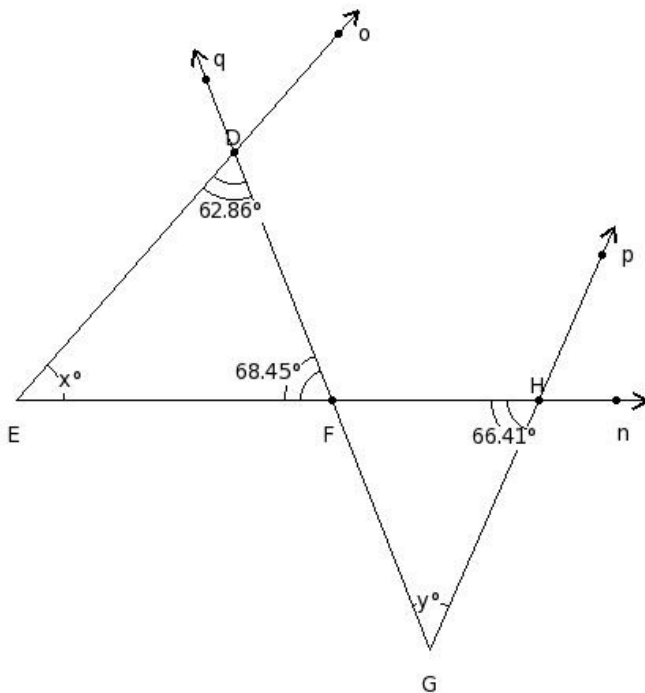
45. Side DE is produced to F, so that  $\angle DEC$  and  $\angle CEF$  form a linear pair.

If  $\vec{EG}$  and  $\vec{EH}$  are the bisectors of  $\angle DEC$  and  $\angle CEF$ , find  $x$  and  $y$ .



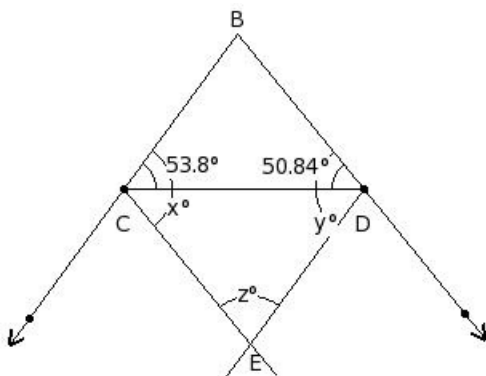
- (i)  $x=28.71^\circ, y=57.29^\circ$  (ii)  $x=32.71^\circ, y=61.29^\circ$  (iii)  $x=30.71^\circ, y=59.29^\circ$  (iv)  $x=31.71^\circ, y=60.29^\circ$   
 (v)  $x=29.71^\circ, y=58.29^\circ$

46. In the given figure, find the values of  $x$  and  $y$



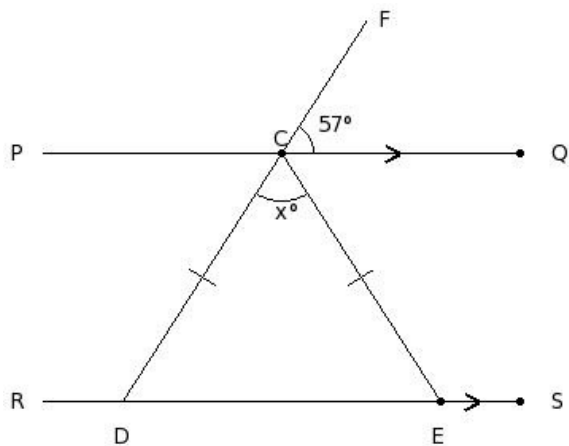
- (i)  $x=47.69^\circ, y=44.14^\circ$  (ii)  $x=46.69^\circ, y=43.14^\circ$  (iii)  $x=50.69^\circ, y=47.14^\circ$  (iv)  $x=49.69^\circ, y=46.14^\circ$   
 (v)  $x=48.69^\circ, y=45.14^\circ$

47. In the given figure,  $\triangle BCD$  in which  $\angle C = 53.8^\circ$  and  $\angle D = 50.84^\circ$ . BE and CD bisect each other. Find the value of  $z$



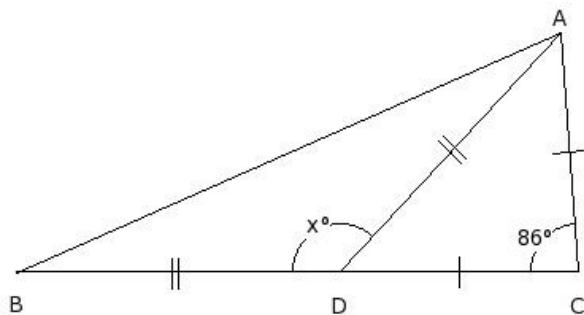
- (i)  $z=75.36^\circ$  (ii)  $z=74.36^\circ$  (iii)  $z=73.36^\circ$  (iv)  $z=76.36^\circ$  (v)  $z=77.36^\circ$

48. In the given figure,  $PQ \parallel RS$ ,  $\angle FCQ = 57^\circ$  and  $CD = EC$ . Find the measure of  $x$ .



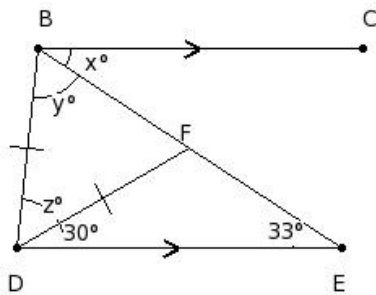
- (i)  $x=65^\circ$  (ii)  $x=66^\circ$  (iii)  $x=68^\circ$  (iv)  $x=67^\circ$  (v)  $x=64^\circ$

49. In the given figure, find the value of  $x$ .



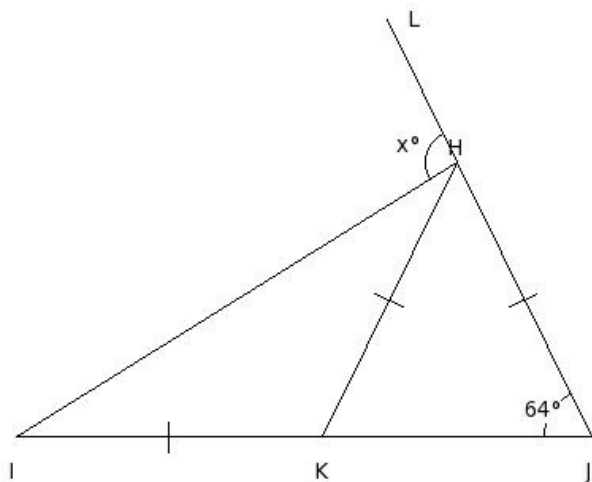
- (i)  $x=131^\circ$  (ii)  $x=135^\circ$  (iii)  $x=132^\circ$  (iv)  $x=134^\circ$  (v)  $x=133^\circ$

50. In the given figure,  $BC \parallel DE$  and  $BD = DF$ . Find the values of  $x, y$  and  $z$ .



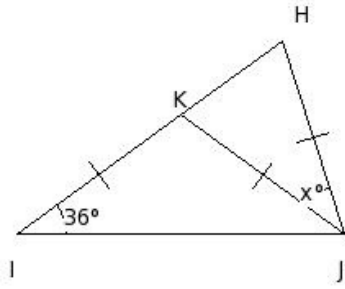
- (i)  $x=31^\circ, y=63^\circ, z=56^\circ$  (ii)  $x=33^\circ, y=61^\circ, z=56^\circ$  (iii)  $x=33^\circ, y=63^\circ, z=54^\circ$  (iv)  $x=35^\circ, y=63^\circ, z=52^\circ$   
 (v)  $x=31^\circ, y=65^\circ, z=54^\circ$

51. In the given figure, if  $JH = HK = IK$ . Find the value of  $x$ .



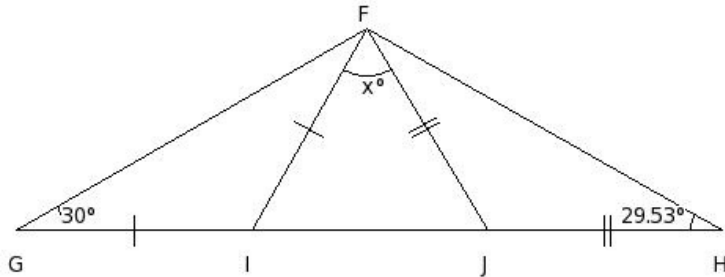
- (i)  $x=97^\circ$  (ii)  $x=98^\circ$  (iii)  $x=95^\circ$  (iv)  $x=94^\circ$  (v)  $x=96^\circ$

52. In the given figure, if  $JH = JK = KI$ , find the value of  $x$



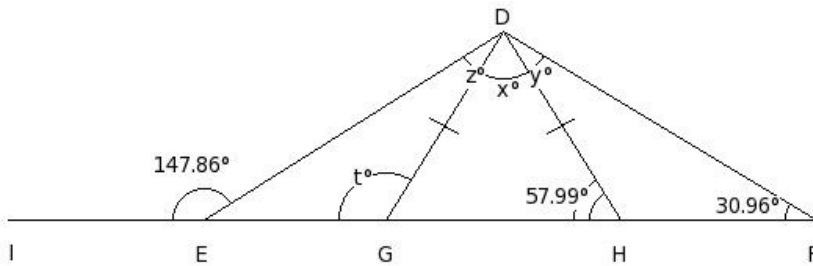
- (i)  $x=38^\circ$  (ii)  $x=36^\circ$  (iii)  $x=37^\circ$  (iv)  $x=34^\circ$  (v)  $x=35^\circ$

53. In the given figure, if  $IF = GI$  and  $FJ = JH$ , find the value of  $x$ .



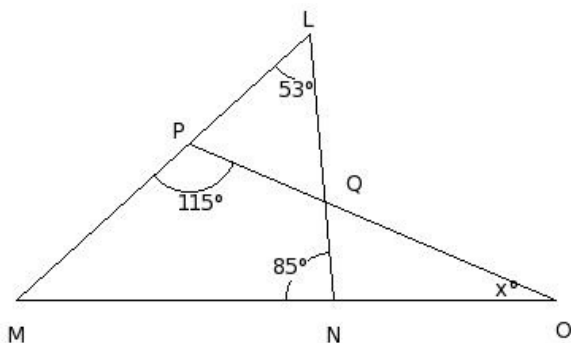
- (i)  $x=61.94^\circ$  (ii)  $x=58.94^\circ$  (iii)  $x=62.94^\circ$  (iv)  $x=59.94^\circ$  (v)  $x=60.94^\circ$

54. In the given figure, if  $DG = HD$ , find the values of  $x$ ,  $y$ ,  $z$  and  $t$



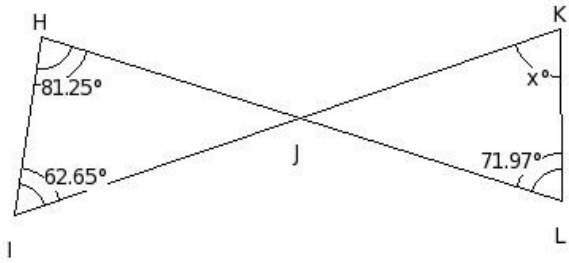
- (i)  $x = 64.02^\circ, y = 27.03^\circ, z = 26.85^\circ, t = 123.01^\circ$  (ii)  $x = 64.02^\circ, y = 27.03^\circ, z = 25.85^\circ, t = 122.01^\circ$   
 (iii)  $x = 64.02^\circ, y = 25.03^\circ, z = 23.85^\circ, t = 122.01^\circ$  (iv)  $x = 64.02^\circ, y = 27.03^\circ, z = 24.85^\circ, t = 121.01^\circ$   
 (v)  $x = 64.02^\circ, y = 29.03^\circ, z = 27.85^\circ, t = 122.01^\circ$

55. In the given figure, calculate the value of  $x$ .



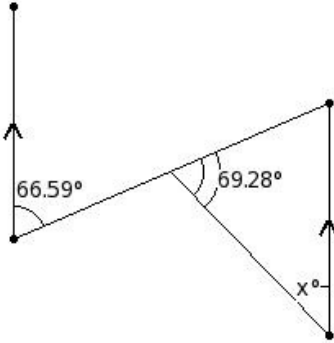
- (i)  $x=23^\circ$  (ii)  $x=25^\circ$  (iii)  $x=22^\circ$  (iv)  $x=21^\circ$  (v)  $x=24^\circ$

56. In the given figure, calculate the value of  $x$ .



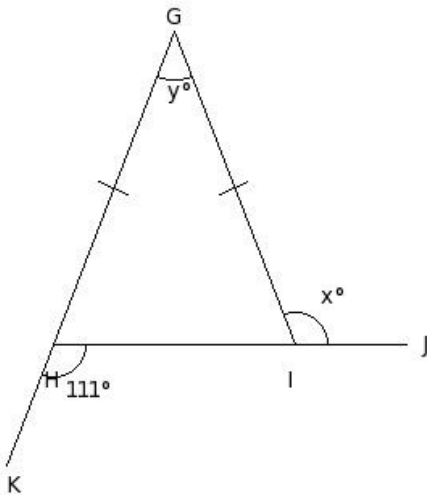
- (i)  $x=72.93^\circ$  (ii)  $x=70.93^\circ$  (iii)  $x=69.93^\circ$  (iv)  $x=71.93^\circ$  (v)  $x=73.93^\circ$

57. In the given figure, calculate the value of  $x$ .



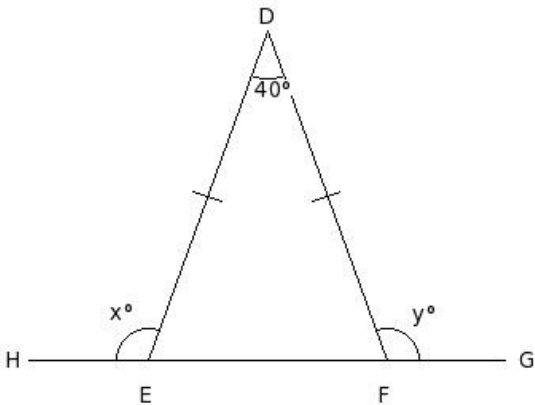
- (i)  $x=46.13^\circ$  (ii)  $x=44.13^\circ$  (iii)  $x=43.13^\circ$  (iv)  $x=45.13^\circ$  (v)  $x=42.13^\circ$

58. Find the unknown marked angles in the following figure



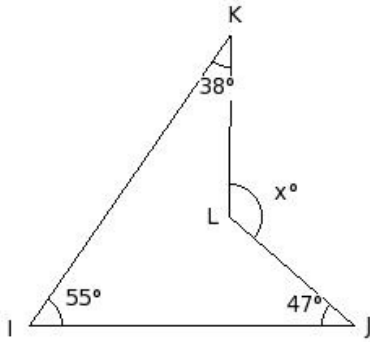
- (i)  $x=112^\circ, y=43^\circ$  (ii)  $x=111^\circ, y=42^\circ$  (iii)  $x=110^\circ, y=41^\circ$  (iv)  $x=109^\circ, y=40^\circ$  (v)  $x=113^\circ, y=44^\circ$

59. Find the unknown marked angles in the following figure



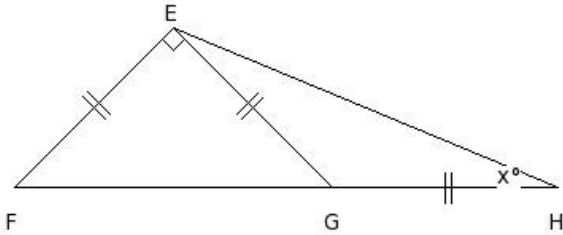
- (i)  $x=108^\circ, y=108^\circ$  (ii)  $x=109^\circ, y=109^\circ$  (iii)  $x=112^\circ, y=112^\circ$  (iv)  $x=110^\circ, y=110^\circ$  (v)  $x=111^\circ, y=111^\circ$

60. In the given figure, calculate the value of  $x$ .



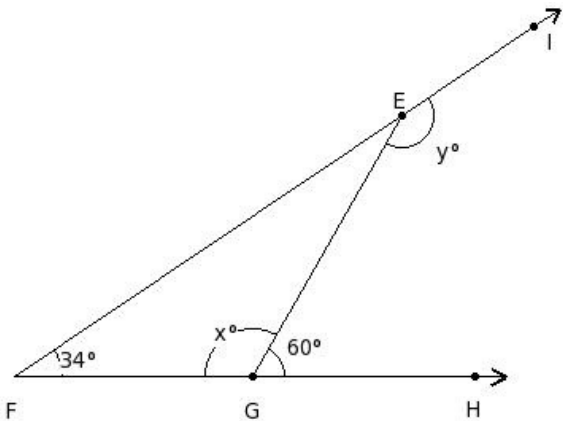
- (i)  $x=139^\circ$  (ii)  $x=140^\circ$  (iii)  $x=138^\circ$  (iv)  $x=141^\circ$  (v)  $x=142^\circ$

61. In the given figure, calculate the value of  $x$ .



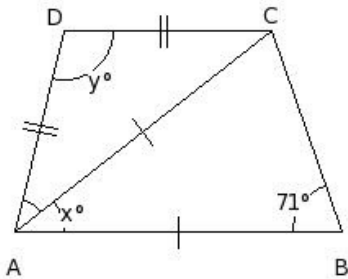
- (i)  $x=20.5^\circ$  (ii)  $x=23.5^\circ$  (iii)  $x=21.5^\circ$  (iv)  $x=22.5^\circ$  (v)  $x=24.5^\circ$

62. Find the unknown marked angles in the following figure



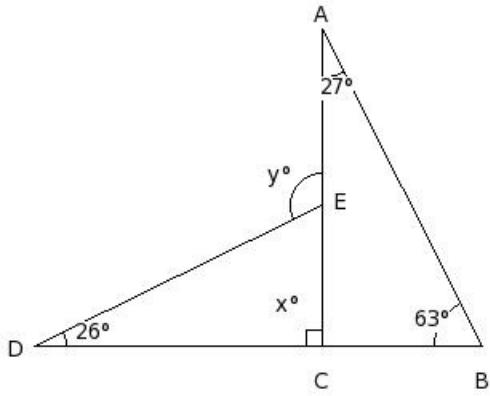
- (i)  $x=122^\circ, y=156^\circ$  (ii)  $x=121^\circ, y=155^\circ$  (iii)  $x=119^\circ, y=153^\circ$  (iv)  $x=120^\circ, y=154^\circ$  (v)  $x=118^\circ, y=152^\circ$

63. In the following figure  $AB \parallel DC$ , find the values of  $x$  and  $y$ .



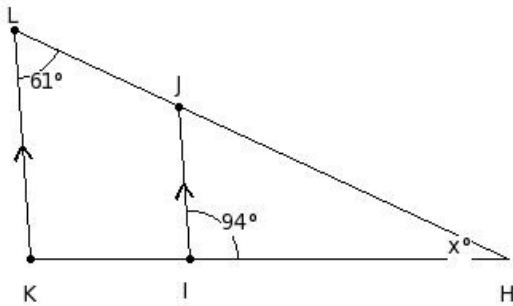
- (i)  $x=39^\circ, y=105^\circ$  (ii)  $x=36^\circ, y=102^\circ$  (iii)  $x=40^\circ, y=106^\circ$  (iv)  $x=38^\circ, y=104^\circ$  (v)  $x=37^\circ, y=103^\circ$

64. Find the unknown marked angles in the following figure



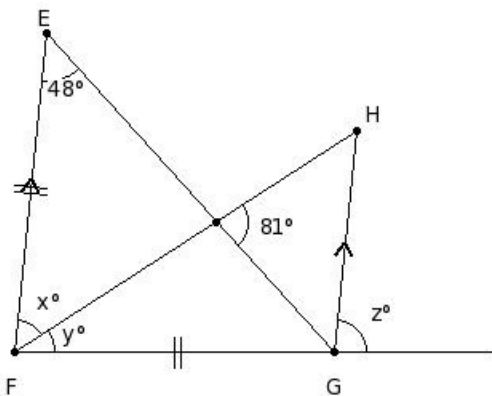
- (i)  $x=92^\circ, y=118^\circ$  (ii)  $x=88^\circ, y=114^\circ$  (iii)  $x=91^\circ, y=117^\circ$  (iv)  $x=90^\circ, y=116^\circ$  (v)  $x=89^\circ, y=115^\circ$

65. In the given figure, it is given that  $JI \parallel LK$ ,  $\angle JLK = 61^\circ$  and  $\angle JIH = 94^\circ$ . Find the value of  $x$ .



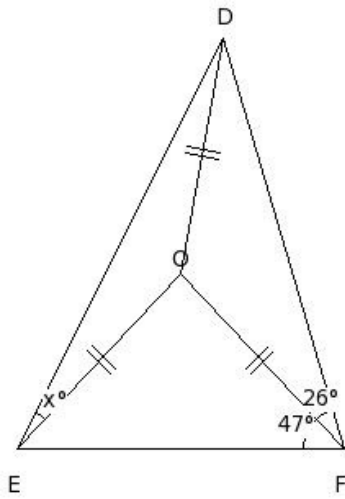
- (i)  $x=25^\circ$  (ii)  $x=23^\circ$  (iii)  $x=27^\circ$  (iv)  $x=26^\circ$  (v)  $x=24^\circ$

66. In the given figure, find the values of  $x$ ,  $y$  and  $z$ .



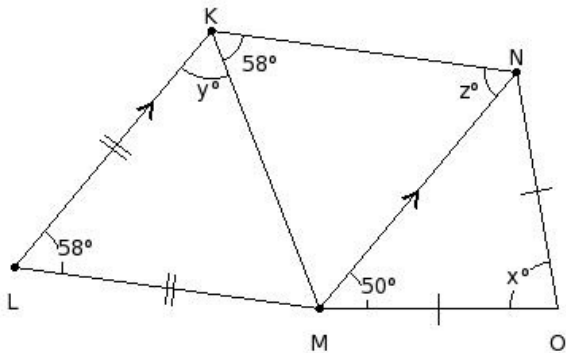
- (i)  $x=49^\circ, y=33^\circ, z=86^\circ$  (ii)  $x=53^\circ, y=33^\circ, z=82^\circ$  (iii)  $x=51^\circ, y=31^\circ, z=86^\circ$  (iv)  $x=49^\circ, y=35^\circ, z=84^\circ$   
 (v)  $x=51^\circ, y=33^\circ, z=84^\circ$

67. Find the value of  $x$  in the given figure.



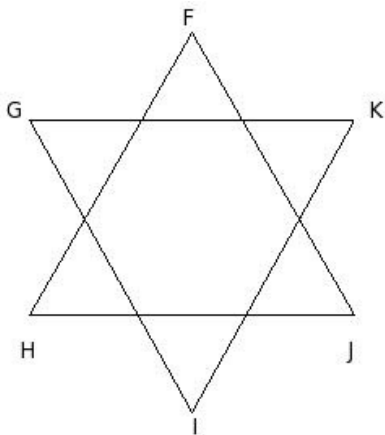
- (i)  $x=14^\circ$  (ii)  $x=18^\circ$  (iii)  $x=16^\circ$  (iv)  $x=17^\circ$  (v)  $x=15^\circ$

68. In the given figure, find the values of  $x$ ,  $y$  and  $z$ .



- (i)  $x=80^\circ, y=59^\circ, z=60^\circ$  (ii)  $x=78^\circ, y=61^\circ, z=60^\circ$  (iii)  $x=80^\circ, y=61^\circ, z=58^\circ$  (iv)  $x=82^\circ, y=61^\circ, z=56^\circ$   
 (v)  $x=78^\circ, y=63^\circ, z=58^\circ$

69. In the given two equilateral triangles, find  $\angle F + \angle H + \angle J + \angle G + \angle I + \angle K$ .



- (i)  $360^\circ$  (ii)  $358^\circ$  (iii)  $361^\circ$  (iv)  $362^\circ$  (v)  $359^\circ$

70. In a right angled triangle, if one of the angles is  $47.29^\circ$ , find the third angle

- (i)  $47.71^\circ$  (ii)  $52.71^\circ$  (iii)  $57.71^\circ$  (iv)  $42.71^\circ$  (v)  $72.71^\circ$

71. In a right angled triangle, if one of the angles is  $54.46^\circ$ , find the third angle

- (i)  $40.54^\circ$  (ii)  $45.54^\circ$  (iii)  $50.54^\circ$  (iv)  $35.54^\circ$  (v)  $65.54^\circ$

## Assignment Key

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