1. The side opposite to the vertex A of ΔABC is -------
2. The measure of each angle of an equilateral triangle is ---------
3. A triangle has ---------------- medians and ----------- altitudes
4. In a ------angled triangle one of its sides form the altitude
5. The sum of any two sides of a triangle is always ---------its third side
6. Three angles of a triangle are in the ratio 3: 3: 4. Find the measures of each angle
7. The two interior opposite angles of an exterior angle of a triangle are 75° and 35°.Find the measure of the exterior angle
8. The lengths of the two sides of a triangle are   4cm and 9cm. Between what two measures should the length of the third side fall?
9. Check whether 6.5cm,5.6cm, 12 cm can be the sides of a triangle
10. Which of the following lengths can be the sides of a right-angled triangle?
    a)  4cm,7.5cm,8.5cm              b) 9cm,12cm,15cm          c) 2cm,7cm,10cm
11. The two sides of a rectangle are 12 cm and 5 cm. Find the length of its diagonal
12. A cable wire of length 61m is attached to the top of a building from the bottom of a pole fixed at a distance of 11m from the bottom of the building. Find the height of the building
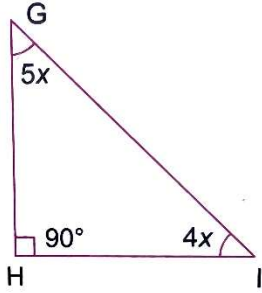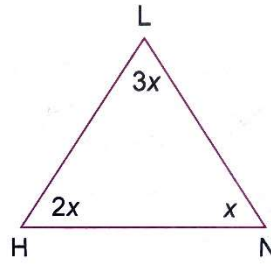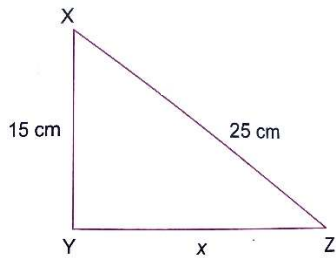13. Find the unknown values in each of the following figures:
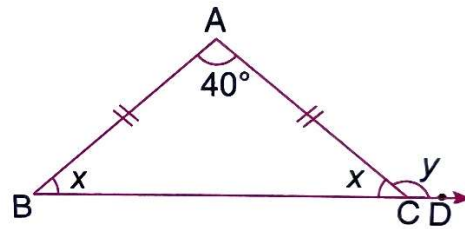    a)                                                      b)
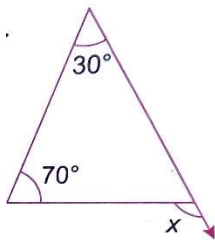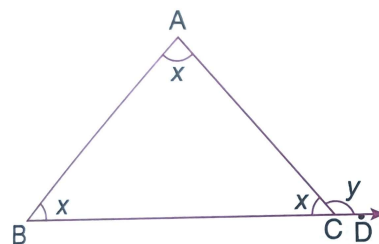
c)



d)



e)



f)



## Answers:

1) BC     2) 60°     3) 3,3     4) right angled     5) greater

6) 110°     7) 54°, 54°,72°     8) 5 & 13     9) Yes

10)  a) Yes     b) Yes     c) No     11) 13cm     12) 60m

13) a) 110°     b) x = 60°,y = 120°     c) x = 10°

    d) x = 30°     e) x = 20cm     f) x = 70°, y = 110°

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*