**Aarambh Classes**

**Class X**

**Maths test**

**Triangles**

**Time : 1hour M.Marks : 20**

1 mark :

1. In the given figure ,DE BC . If = and AC = 14 cm ,find EC .

2 . A vertical pole of length 19 m casts ashadow 57 m long on the ground and at the same time a tower casts a shadow 51 m long . Find the height of the tower .

**2 marks :**

3 . Sides AB,BC and median AD of a ABC are respectively proportional to sides PQ,QR and median PM of PQR . Show that ABC PQR

4 . In figure PQ BC ,PQ= 3 cm , BC = 9 cm and AC =7.5 cm .Find the length of AQ .

**3 marks :**

5 . A girl of height 100 cm is walking away from the base of a lamp post at a speed of 1.9 m/s .If the lamp is 5 m above the ground ,find the length of her shadow after 4 seconds .

6 . In figure =E and ,prove that ABC is an isosceles triangle .

7 . In the figure ,if BEA CDA ,then prove that .

**5 marks :**

8 . ABCD is a trapezium with ABCD . E and F are point on non parallel sides AD and BC respectively ,such that EF AB .S how that .