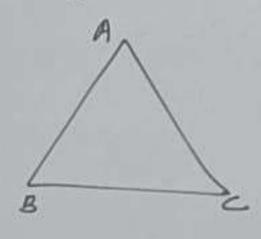
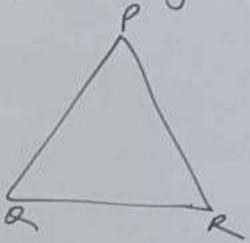
The Perimeter of two Similar triangles are so cm and 20 cm, respectively. If side of the first triangle is 9 cm long, find the long th of the second triangle.

Sushil SIR MATHS





$$\frac{AB}{PR} = \frac{BC}{RR} = \frac{AC}{PR} = \frac{AB+BC+AC}{PR+RP} = \frac{PI}{PZ}$$
AB

$$\frac{AB}{PB_2} = \frac{P_1}{P_2}$$

9 = 3 d = 3 d = 2 x A 3

| PB = 6 cm.

CLASS-8 (Topic: Triangles)

B: In fig. PA, AB and RC are each perpendicular to AC. of x=8cm.

and Z = 6 cm. There find the value of y.

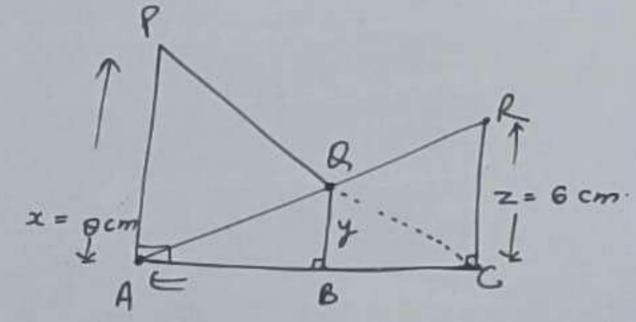
Sel: Constauction: - Join QC

in D PAC QBII PA

RB = AB -(i)
PA AC

MOW in A ARC, &BIIRC

 $\frac{QB}{RC} = \frac{BC}{AC} - 0$



from egnais s(i).

In the given figure. DEFGI is a square and LBAC = 90°, show that FGI2 = BGIX FC

In the given figure . De For a ge

0,2

Sol Since DEF 6 is a square. Then DE = EF = GIF = DG

Now in A ADE and A GIBDE) LDGB= LA = 90.

and L GIBD = LAED - . . Cooks pending angle

SO DADE ~ DUBD - (1) by A A Similarity

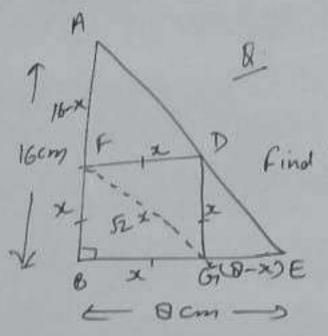
Similarly DAED-DEFC-(i) by "

From egn (i) 2 (ii). 2 61BD~ DEFC

BG = FC = DGXEF = BGXEC

Hence Box FG = BGXEC

CLASS-& (Topic: Triangles)



Side AB and BE of a right triangle, right angled at B are of lengths 16cm and 8cm nespectively.

Find The length of the side of a square FD 61B

That can be inscribed in the triangle

Hat can be inscribed in the triangle

$$\frac{FG \, 11 \, AE}{AE} = \frac{BG}{BE} = \frac{BG}{BE}$$

$$\frac{16-x_{1}}{46-x_{2}} = \frac{x_{2}}{8}$$

$$\frac{16-x_{1}}{16-x_{2}} = \frac{x_{2}}{8}$$

$$\frac{16-x_{2}}{16-x_{3}} = \frac{x_{4}}{8}$$

$$\frac{16-x_{1}}{16-x_{2}} = \frac{x_{4}}{8}$$

$$\frac{16-x_{2}}{16-x_{3}} = \frac{x_{4}}{8}$$

$$\frac{16-x_{2}}{16-x_{3}} = \frac{x_{4}}{8}$$

Sel:- Let The stide of a sequence FDG1B

be or cm, then

FG1:= 12+2

FG1:= 12 x cm.