IX – Mathematics Assignment No-01 – Heron's Formula – Area

Q1. Find the area of triangle with base 12 cm and perpendicular on the base is 5 cm

(Q2) Find the area of Δ whose three sides are 5 cm, 12 cm and 13 cm. Find its area by two methods.

(Q3) Find the area of Equilateral Δ whose each side 4 cm

(Q4) Find the area of right angled Δ whose sides are 3 cm, 4 cm and 5 cm.

(Q5) Find the area of an isosceles Δ whose base is 6 cm and each equal side is 4 cm.

(Q6) Find the side of an equilateral Δ whose area is $16\sqrt{3}$ cm^2

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(Q7) The sides of a Δ are 5 cm, 12 cm and 13 cm. Find the length of the altitude to side 13 cm.

(Q8) The perimeter of a triangular field is 240 cm. and the ratio of sides are 3 : 4 : 5. Find its area.

(Q9) Find the perimeter of an isosceles Δ whose area is 12 cm^2 and one of re equal side is 5 cm

(Q10) Find the area of a right-angled Δ, if the radius of its circumcircle is 5 cm and the altitude drawn to the hypotenuse is 4 cm.

ANSWER:

(Q1) 30 cm^2	(6) 8 cm	(10) 20 cm^2
(2) 30 cm^2	(7) $9\frac{3}{13}$ cm	
(3) $4\sqrt{3}$ cm^2	(8) 2400 cm^2	
(4) 6 cm^2		
(5) $3\sqrt{7}$ cm^2	(9) 16 cm	