SATISH CHANDRA MEMORIAL SCHOOL

CLASS- IX

CHATERS- HERON'S FORMULA, POLYNOMIALS, LINES AND ANGLES.

WORKSHEET- 3

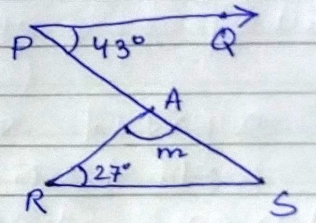
* Note for students- Students must complete it in their class work copy.

Q1.) Factorise (i) $x^4 - 625$ (ii) a^3+b^3+a+b.

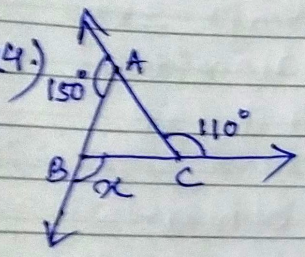
Q2.) Find $p(0)$, $p(1)$ and $p(-2)$ for the following polynomials.

(i) $p(x) = 10x - 4x^2 - 3$ (ii) $p(y) = (y+2)(y-2)$

Q3.) In the given figure, if PQ || RS, then find the value of m or $\angle RAS$. Also given $\angle P = 43°$, $\angle R = 27°$.



Q4.)



Find the value of x from the given figure.

Q5) If one angle of a triangle is equal to the sum of the other two angles, then show that the triangle is a right angled triangle.

Q6) The sides of a triangle are x, $x+1$, $2x-1$ and its area is $x\sqrt{10}$. Find the value of x.

Q7) The adjacent sides of a parallelogram ABCD, are AB = 34cm, BC = 20cm and diagonal AC = 42 cm. Find the area of the parallelogram.

Q8) How many zeros does a cubic polynomial have?

— X —