

SATISH CHANDRA MEMORIAL SCHOOL
CLASS - IX CHAPTERS - POLYNOMIALS, HERON'S FORMULA
LINES AND ANGLES

WORKSHEET-4

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

Q1) Find K , if $(x^{51} + 2x^{60} + 3x)$ is divisible by $(x+1)$

Q2) If $(x^{21} - 20)$ is divisible by $(x+1)$, find the remainder.

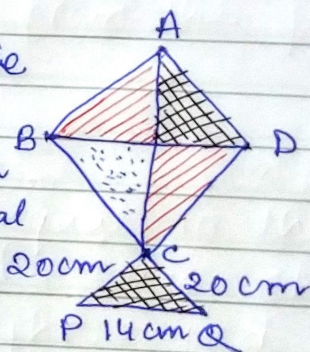
Q3) Factorise the following polynomials:-

(i) $2x^2 + 7x + 3$

(ii) $x^2 - 5x + 6$

Q4) The perimeter of a rhombus is 20cm and one of its diagonal is 6cm long. Find the length of the other diagonal.

Q5) How much paper of each shade is needed to make a kite given in the figure, in which ABCD is a square with diagonal 44cm and an isosceles ΔCPQ of base 14cm and sides 20cm each, is to be made of 3 different shades (, , ) as shown in the figure.



Q6) Find the area of regular hexagon of side a cm.

Q7) If two supplementary angles are in the ratio of 11:7, then find the angles.

Q8) If angles a and b form a linear pair of angles and $a - 2b = 30^\circ$, then find a and b .

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