

1. If  $p(x) = x^2 - 2\sqrt{2}x + 1$  then  $p(\sqrt{2}) =$  \_\_\_\_\_ . (1)
2. Abscissa of all Points on y axis is \_\_\_\_\_ . (1)
3. The area of an equilateral triangle whose side 6cm is \_\_\_\_\_ . (1)
4. If  $a + b + c = 0$  then  $a^3 + b^3 + c^3 =$  \_\_\_\_\_ . (1)
5. The sides of a triangle are in the ratio 3:5:7 and its perimeter is 300m. Find the area of the triangle. (2)
6. Without actual division find the remainder when the polynomial  $2x^4 + x^3 + 4x^2 - 3x - 2$  is divided by  $x - 3$ . (2)
7. Evaluate  $101 \times 103$  using identity. (2)
8. Plot the following points on the graph sheet, join the points and write the name of the figure obtained  
 $P(-5,-2)$ ,  $Q(1, -2)$ ,  $R(6, 4)$ ,  $S(0, 4)$ . (3)
9. Factorize using Factor theorem  
 $x^3 - 6x^2 + 11x - 6$  (3)
10. Two parallel sides of a trapezium are 60cm and 77cm and other sides are 25cm and 26cm. Find the area of trapezium. (4)

