ADARSHA VIDYALAYA. HUNASHYAL, P.B

NAME :- **ROLL.NO:-** **Total Marks:- 20**

CLASS:–IX **UNIT TEST 2:-Polynomials and Co-Or Geometry** **SUBJECT:- Mathematics**

Answer the following questions 1X5=5

1. Which of the following is not a polynomial?

   a) $x^2 + 2\sqrt{x} + 3$ **b)** $x^2 - \sqrt{2}x + 3$ **c)** $x^3 - 3x^2 - 3$ **d) 6x + 4** **ANS:-_____**

2. The degree of the polynomial $3x^3 - x^4 + 5x + 3$ is **ANS:-_____**

3. Zero of the polynomial $p(x) = a^2 x$ is **ANS:-_____**

4. Which quadrant the below points belongs to ?

   a. (0, 0) **b.(-3, 5)** **ANS:-_____**

5. Write the name of the point where the x and y axis intersects

   ANS:- _____

Answer the Following: 2X3=6

6. Find the remainder when $x^3 + 3x^2 + 3x + 1$ is divided by (x + 1),

ANS:-

7. Find the value of a if x + 6 is a factor of $x^3 + 3x^2 + 4x + a$.

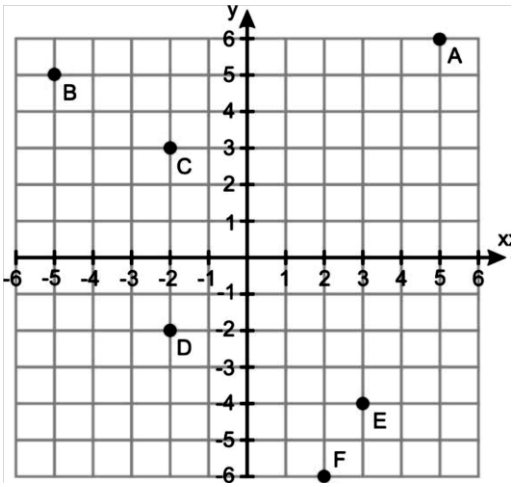
ANS:-

8. State Reminder theorem. Or factories $4x^2 + 14x + 10$

ANS:-

Answer the Following: **3X3=9**

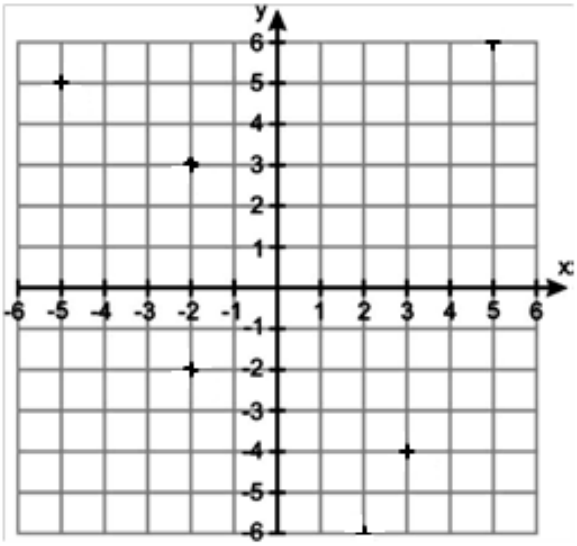
9. Write the coordinates, Quadrant or Ordinates of the given points marked on the Cartesian plane as per the instruction.



a) Co ordinates of A is = (,)
b) Quadrant of B is =
c) Ordinate of D is =
d) Point belongs to III Quadrant is =
e) Difference between Abscissa of E & F is =
f) Abscissa of point (0,3) is =

10. Draw below points on graph and join all the points

x	-2	-1	0	1	3
y	6	5	1.3	-1	-3



11. Match the followings

A	B
1) $x^3 + 3x^{-2} + 3x + 1$	a) $ax^2 + bx + c$
2) $7x^3$	b) Cubic polynomial
3) Degree of polynomial is 2	c) Non polynomial
4) Coefficient of x in $x^3 + 3x^2 + 1+5x$	d) 6
5) Degree of $x^5 + 3x^6 + 3x + 1$ is	e) ax + b
6) General Form of linear Polynomial	f) 5

ANS:-

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ANSWER PAPER

CLASS:–IX UNIT TEST 2:-Polynomials and Co-Or Geometry SUBJECT:- Mathematics

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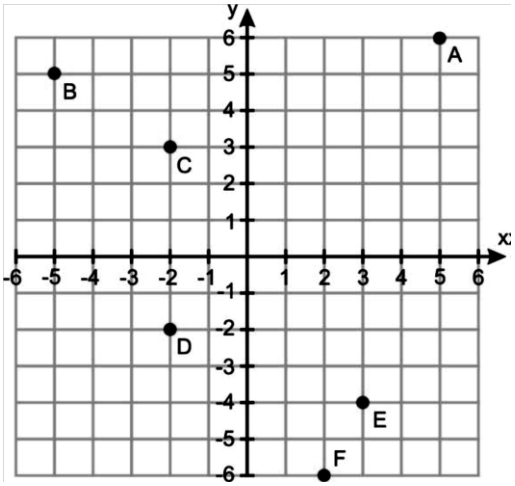

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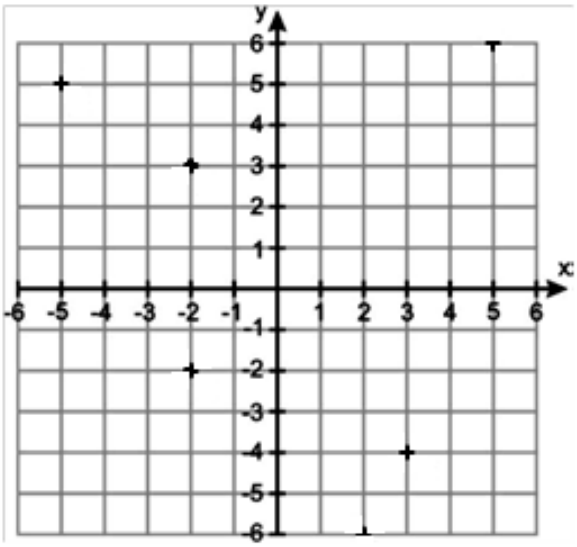

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