

# Topic: Polynomials

## Worksheet No. : 3

1. The factors of  $2x^2 - 7x + 3$  are :

- (a)  $(x - 3)(2x - 1)$                       (b)  $(x + 3)(2x + 1)$   
(c)  $(x - 3)(2x + 1)$                       (d)  $(2x + 3)(x + 1)$

2. The factors of  $6x^2 - 5x + 6$  are :

- (a)  $(2x - 3)(3x - 2)$                       (b)  $(2x - 3)(3x + 2)$   
(c)  $(2x + 3)(3x - 2)$                       (d)  $(2x + 3)(3x + 2)$

3. The factors of  $12x^2 - 7x + 1$  are :

- (a)  $(4x - 1)(3x - 1)$     (b)  $(4x - 1)(3x + 1)$   
(c)  $(4x + 1)(3x - 1)$     (d)  $(4x + 1)(3x + 1)$

4. The factors of  $x^3 - 2x^2 - x + 2$  are :

- (a)  $(x - 1)(x - 1)(x - 5)$                       (b)  $(x + 1)(x + 1)(x + 5)$   
(c)  $(x + 1)(x - 1)(x + 5)$                       (d)  $(x + 1)(x + 1)(x - 5)$

5. Without actual calculating the cubes, the value of

$$28^3 + (-15)^2 + (-13)^3 \text{ is:}$$

- (a) 16380                                      (b) -16380  
(c) 15380                                      (d) -15380

6. Which of the following is not a polynomial?

- (a)  $x^2 + \sqrt{2}x + 3$                       (b)  $x^2 + \sqrt{2x} + 6$   
(c)  $x^3 + 3x^2 - 3$                       (d)  $6x + 4$



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7. The degree of the polynomial  $3x^3 - x^4 + 5x + 3$

- (a) -4 (b) 4  
(c) 1 (d) 3

8. Factorisation of  $x^3 + 1$  is

- (a)  $(x + 1)(x^2 - x + 1)$  (b)  $(x + 1)(x^2 + x + 1)$   
(c)  $(x + 1)(x^2 - x - 1)$  (d)  $(x + 1)(x^2 + 1)$

9. Zero of the polynomial  $p(x) = a^2x, a \neq 0$  is

- (a)  $x = 0$  (b)  $x = 1$   
(c)  $x = -1$  (d)  $a = 1$

10. If  $p(x) = 5x^2 - 3x + 7$ , then  $p(1)$  equals

- (a) -10 (b) 9  
(c) -9 (d) 10





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