EduSahara™ Assignment

Name : Polynomial Division

Chapter : Factor Theorem

Grade : ICSE Grade X

1. The quotient when $8c$ is divided by (-2) is

   (i) $(-4c)$ (ii) $(-2c)$ (iii) $(-6c)$ (iv) $(-3c)$ (v) $(-5c)$

2. The quotient when $(-7x^2)$ is divided by $(x-9)$ is

   (i) $(-7x-63)$ (ii) $(-8x-63)$ (iii) $(-9x-63)$ (iv) $(-4x-63)$ (v) $(-6x-63)$

3. The quotient when $(6k-5)$ is divided by $(k+4)$ is

   (i) 5 (ii) 4 (iii) 8 (iv) 7 (v) 6

4. The quotient when $(-9b^2+9b+9)$ is divided by $(b-9)$ is

   (i) $(-6b-72)$ (ii) $(-12b-72)$ (iii) $(-10b-72)$ (iv) $(-8b-72)$ (v) $(-9b-72)$

5. The quotient when $(-6n^2-9n)$ is divided by $(n+1)$ is

   (i) $(-9n-3)$ (ii) $(-4n-3)$ (iii) $(-5n-3)$ (iv) $(-7n-3)$ (v) $(-6n-3)$

6. The quotient when $(-2n^3-9n^2-8)$ is divided by $(n^2+15n+56)$ is

   (i) $(n+21)$ (ii) $(-4n+21)$ (iii) $(-3n+21)$ (iv) $(-n+21)$ (v) $(-2n+21)$

7. The quotient when $(-6d^4-4d^3-2d^2-6d+5)$ is divided by $(d^2+7d-18)$ is

   (i) $(-8d^2+38d-376)$ (ii) $(-6d^2+38d-376)$ (iii) $(-7d^2+38d-376)$ (iv) $(-4d^2+38d-376)$

   (v) $(-5d^2+38d-376)$

8. The quotient when $(-7t^5-7t^4+8t^3+7t^2-3t+4)$ is divided by $(t+4)$ is

   (i) $(-10t^4+21t^3-76t^2+311t-1247)$ (ii) $(-6t^4+21t^3-76t^2+311t-1247)$

   (iii) $(-7t^4+21t^3-76t^2+311t-1247)$ (iv) $(-8t^4+21t^3-76t^2+311t-1247)$

   (v) $(-5t^4+21t^3-76t^2+311t-1247)$

9. $(9x^3+21x^2-12)\div(-9x^2-3x+6)=$

   (i) $(-x-2)$ (ii) (-2) (iii) $(-x+2)$ (iv) $(x-2)$ (v) $(-2x-2)$

10. $(-12x^4-6x^3+48x^2+6x-36)\div(-4x^3-6x^2+10x+12)=$

    (i) $(4x-3)$ (ii) $(2x-3)$ (iii) $(3x-3)$ (iv) $(-3x-3)$ (v) $(3x+3)$

11. $(18x^5+57x^4-25x^3-95x^2+27x+18)$ divided by $(2x^3+7x^2-9) =$

(i) $(9x^2-4x-2)$ (ii) $(9x^2-3x-2)$ (iii) $(9x^2-3x+2)$ (iv) $(9x^2-2x-2)$ (v) $(9x^2+3x-2)$

12. $(12x^3y^3+4x^3y^2) \div 2xy =$

(i) $(6x^3y^4+2x^2y)$ (ii) $(6x^2y^2+2xy^2)$ (iii) $(2x^2y^2z+6x^2y^2)$ (iv) $(6x^2y^2+2x^2y)$ (v) $(6x^3y^3+2x^2y)$

13. $(216x^3y^3z^4+36x^3y^2z^3+72x^2y^2z^3) \div 6xyz^2 =$

(i) $(36x^3y^4z^2+6x^2yz+12xyz)$ (ii) $(36x^2y^2z^2+6xy^2z+12xyz)$ (iii) $(36x^2y^2z^2+6x^2yz+12xyz)$

(iv) $(36x^3y^3z^2+6x^2yz+12xyz)$ (v) $(6x^2y^2z^2+12xyz)$

14. $(4x^3+8x^2) \div 4x$

(i) (x^2+3x) (ii) $(-x^2+2x)$ (iii) $2x$ (iv) (x^2-2x) (v) (x^2+2x)

15. $(20x^4+26x^3+8x^2) \div (4x^2+2x)$

(i) $(-5x^2+4x)$ (ii) $(5x^2+4x)$ (iii) $(5x^2-4x)$ (iv) $(4x^2+4x)$ (v) $(5x^2+5x)$

16. $(45x^4+27x^3-80x^2-48x) \div (9x^2-16)$

(i) $(5x^2-3x)$ (ii) $(-5x^2+3x)$ (iii) $(5x^2+2x)$ (iv) $(5x^2+4x)$ (v) $(5x^2+3x)$

Assignment Key

1) (i)	2) (i)	3) (v)	4) (v)	5) (v)	6) (v)
7) (ii)	8) (iii)	9) (i)	10) (iii)	11) (ii)	12) (iv)
13) (iii)	14) (v)	15) (ii)	16) (v)		