EduSahara™ Assignment

Name : Polynomial Division

Chapter : Factor Theorem

Grade : ICSE Grade X

License : Non Commercial Use

1. The quotient when $(-7z)$ is divided by (-6) is

   (i) $\frac{3}{2}z$ (ii) $\frac{7}{6}z$ (iii) $\frac{5}{6}z$ (iv) $\frac{5}{4}z$ (v) $\frac{9}{8}z$

2. The quotient when $6c^2$ is divided by $(c+2)$ is

   (i) $(9c-12)$ (ii) $(6c-12)$ (iii) $(3c-12)$ (iv) $(7c-12)$ (v) $(5c-12)$

3. The quotient when $(-6y-9)$ is divided by $(y-5)$ is

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

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

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

5. The quotient when $(-7z^2-9z)$ is divided by $(z-5)$ is

   (i) $(-6z-44)$ (ii) $(-8z-44)$ (iii) $(-4z-44)$ (iv) $(-10z-44)$ (v) $(-7z-44)$

6. The quotient when $(-7k^3+3k+4)$ is divided by $(k-3)$ is

   (i) $(-7k^2-21k-60)$ (ii) $(-10k^2-21k-60)$ (iii) $(-5k^2-21k-60)$ (iv) $(-6k^2-21k-60)$

   (v) $(-8k^2-21k-60)$

7. The quotient when $(-2c^4+9c^3-4c^2-6c-8)$ is divided by $(c^2-8c+15)$ is

   (i) $(-c^2-7c-30)$ (ii) $(-3c^2-7c-30)$ (iii) $(-2c^2-7c-30)$ (iv) $(-4c^2-7c-30)$ (v) $(-7c-30)$

8. The quotient when $(-9r^5-8r^4+4r^3+r^2+3r-9)$ is divided by $(r-1)$ is

   (i) $(-8r^4-17r^3-13r^2-12r-9)$ (ii) $(-6r^4-17r^3-13r^2-12r-9)$ (iii) $(-10r^4-17r^3-13r^2-12r-9)$

   (iv) $(-11r^4-17r^3-13r^2-12r-9)$ (v) $(-9r^4-17r^3-13r^2-12r-9)$

9. $(12x^3-10x^2-4x+2)\div(-6x^2-x+1)=$

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

10. $(-18x^4+87x^3-117x^2+57x-9)\div(-6x^3+23x^2-16x+3)=$

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

11. $(-24x^5+8x^4+30x^3-10x^2-6x+2)$ divided by $(-12x^3+22x^2-12x+2) =$

(i) $(2x^2+3x-1)$ (ii) $(2x^2-3x+1)$ (iii) $(2x^2+4x+1)$ (iv) $(2x^2+2x+1)$ (v) $(2x^2+3x+1)$

12. $(32x^4y^3+16x^3y^4) \div 4x^2y^2 =$

(i) $(8x^2y+4xy^3z)$ (ii) $(8x^2y+4y^3)$ (iii) $(8x^2y+4xy^2)$ (iv) $(8x^3y^2+4xy^2)$ (v) $(8x^3y^3+4xy^2)$

13. $(720x^4y^2z^2+80x^3y^3z^3+16x^3y^2z^3) \div 4x^2yz =$

(i) $(180x^2yz+20xy^2z^2+4xyz^2)$ (ii) $(180x^3y^2z+20xy^2z^2+4xyz^2)$ (iii) $(180x^2yz+20xy^3z^3+4xyz^2)$

(iv) $(180x^3y^3z+20xy^2z^2+4xyz^2)$ (v) $(180x^2yz+4xyz^2+20y^3z^2)$

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

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

15. $(15x^4+21x^3+6x^2) \div (5x^2+2x)$

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

16. $(9x^4+90x^3+207x^2+126x) \div (3x^2+27x+42)$

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

Assignment Key

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

Copyright © Small Systems Computing Pvt. Ltd.