EduSahara™ Assignment

Name : Polynomial Division

Chapter : Polynomials

Grade : CBSE Grade X

1. The quotient when $(-3e)$ is divided by (-1) is

   (i) $4e$ (ii) $3e$ (iii) $6e$ (iv) $2e$ (v) e

2. The quotient when $(-t^2)$ is divided by $(t-2)$ is

   (i) $(-t-2)$ (ii) $(-2t-2)$ (iii) $(-4t-2)$ (iv) (-2) (v) $(t-2)$

3. The quotient when $(-3k-8)$ is divided by $(k+4)$ is

   (i) 0 (ii) (-3) (iii) (-4) (iv) (-2) (v) (-6)

4. The quotient when $(3k^2+3k+1)$ is divided by $(k+4)$ is

   (i) $(5k-9)$ (ii) $(k-9)$ (iii) $(2k-9)$ (iv) $(3k-9)$ (v) $(4k-9)$

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

   (i) $(6b+35)$ (ii) $(10b+35)$ (iii) $(4b+35)$ (iv) $(7b+35)$ (v) $(8b+35)$

6. The quotient when $(-y^2-9y+5)$ is divided by $(y+3)$ is

   (i) $(2y-6)$ (ii) $(-2y-6)$ (iii) (-6) (iv) $(-y-6)$ (v) $(-3y-6)$

7. The quotient when $(-8j^4+3j^3+5j^2+8j-9)$ is divided by $(j^2-11j+28)$ is

   (i) $(-8j^2-85j-706)$ (ii) $(-7j^2-85j-706)$ (iii) $(-9j^2-85j-706)$ (iv) $(-11j^2-85j-706)$

   (v) $(-5j^2-85j-706)$

8. The quotient when $(4g^5+g^4+9g^3-g^2-7g-3)$ is divided by $(g+3)$ is

   (i) $(g^4-11g^3+42g^2-127g+374)$ (ii) $(4g^4-11g^3+42g^2-127g+374)$

   (iii) $(3g^4-11g^3+42g^2-127g+374)$ (iv) $(6g^4-11g^3+42g^2-127g+374)$

   (v) $(5g^4-11g^3+42g^2-127g+374)$

9. The remainder when $(-8r)$ is divided by 5 is

   (i) 0 (ii) 2 (iii) 1 (iv) (-1) (v) (-3)

10. The remainder when $(-j^2)$ is divided by $(j-4)$ is

    (i) (-14) (ii) (-19) (iii) (-15) (iv) (-17) (v) (-16)

11. The remainder when $(i-8)$ is divided by $(i-4)$ is

    (i) (-3) (ii) (-4) (iii) (-1) (iv) (-7) (v) (-5)

12. The remainder when $(8h^2+7h)$ is divided by $(h+8)$ is

(i) 455 (ii) 458 (iii) 457 (iv) 453 (v) 456

13. The remainder when $(-x^2+8x+7)$ is divided by $(x+3)$ is

(i) (-29) (ii) (-26) (iii) (-27) (iv) (-23) (v) (-25)

14. The remainder when $(-7a^3+6a^2-4a)$ is divided by (a^2-a-20) is

(i) $(-144a-20)$ (ii) $(-142a-20)$ (iii) $(-148a-20)$ (iv) $(-146a-20)$ (v) $(-145a-20)$

15. The remainder when $(5v^4-8v^3+6v^2+5v+8)$ is divided by $(v-1)$ is

(i) 18 (ii) 13 (iii) 16 (iv) 15 (v) 17

16. The remainder when (p^3-4p^2+8p-1) is divided by $(p+3)$ is

(i) (-91) (ii) (-88) (iii) (-85) (iv) (-87) (v) (-89)

17. $(9x^3-9x^2-9x+9)\div(3x^2-6x+3)=$

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

18. $(18x^4+51x^3+29x^2-4x-4)\div(9x^3+21x^2+4x-4)=$

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

19. $(18x^5-27x^4-101x^3+57x^2+11x-6)$ divided by $(-3x^3+4x^2+17x-6)=$

(i) $(-6x^2+2x+1)$ (ii) $(-6x^2+x-1)$ (iii) $(-6x^2+x+1)$ (iv) $(-6x^2-x+1)$ (v) $(-6x^2+1)$

20. $(36x^3y^3+180x^2y^4)\div 6xy^2=$

(i) $(6x^2y+30xy^2)$ (ii) $(6x^2y+30xy^3z)$ (iii) $(6x^2y+30y^3)$ (iv) $(6x^3y^2+30xy^2)$ (v) $(6x^3y^3+30xy^2)$

21. $(48x^4y^3z^3+16x^3y^3z^3+432x^3y^2z^3)\div 4x^2yz^2=$

(i) $(12x^2y^2z+4xy^3z^2+108xyz)$ (ii) $(12x^3y^4z+4xy^2z+108xyz)$ (iii) $(12x^3y^3z+4xy^2z+108xyz)$

(iv) $(12x^2y^2z+4xy^2z+108xyz)$ (v) $(12x^2y^2z+108xyz+4y^3z)$

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

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

23. $(25x^4+30x^3+5x^2)\div(5x^2+5x)$

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

24. $(x^4+4x^3-35x^2-150x)\div(x^2-x-30)$

(i) (x^2+4x) (ii) $(-x^2+5x)$ (iii) (x^2-5x) (iv) (x^2+5x) (v) (x^2+6x)

Assignment Key

1) (ii)	2) (i)	3) (ii)	4) (iv)	5) (iv)	6) (iv)
7) (i)	8) (ii)	9) (i)	10) (v)	11) (ii)	12) (v)
13) (ii)	14) (v)	15) (iii)	16) (ii)	17) (v)	18) (iii)
19) (iii)	20) (i)	21) (iv)	22) (iii)	23) (iii)	24) (iv)