EduSahara™ Assignment

Name : Polynomial Division

Chapter : Polynomials

Grade : CBSE Grade X

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

   (i) $2p$ (ii) $(-p)$ (iii) $3p$ (iv) 0 (v) p

2. The quotient when $3p^2$ is divided by $(p+7)$ is

   (i) $(4p-21)$ (ii) (-21) (iii) $(5p-21)$ (iv) $(2p-21)$ (v) $(3p-21)$

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

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

4. The quotient when $(-8w^2+6w-2)$ is divided by $(w+6)$ is

   (i) $(-5w+54)$ (ii) $(-11w+54)$ (iii) $(-7w+54)$ (iv) $(-9w+54)$ (v) $(-8w+54)$

5. The quotient when $(-6p^2+8p)$ is divided by $(p-4)$ is

   (i) $(-8p-16)$ (ii) $(-3p-16)$ (iii) $(-7p-16)$ (iv) $(-5p-16)$ (v) $(-6p-16)$

6. The quotient when $(7h^3-5h^2+9h)$ is divided by $(h^2+8h+12)$ is

   (i) $(5h-61)$ (ii) $(8h-61)$ (iii) $(7h-61)$ (iv) $(6h-61)$ (v) $(9h-61)$

7. The quotient when $(-8x^4-2x^3+8x^2+6x-2)$ is divided by (x^2-5x+6) is

   (i) $(-8x^2-42x-154)$ (ii) $(-10x^2-42x-154)$ (iii) $(-5x^2-42x-154)$ (iv) $(-7x^2-42x-154)$

   (v) $(-9x^2-42x-154)$

8. The quotient when $(5v^5+9v^4-8v^3-8v^2+6v+5)$ is divided by $(v-4)$ is

   (i) $(6v^4+29v^3+108v^2+424v+1702)$ (ii) $(7v^4+29v^3+108v^2+424v+1702)$

   (iii) $(5v^4+29v^3+108v^2+424v+1702)$ (iv) $(4v^4+29v^3+108v^2+424v+1702)$

   (v) $(2v^4+29v^3+108v^2+424v+1702)$

9. The remainder when z is divided by 4 is

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

10. The remainder when $(-5p^2)$ is divided by $(p+2)$ is

    (i) (-19) (ii) (-21) (iii) (-22) (iv) (-18) (v) (-20)

11. The remainder when $(9b+5)$ is divided by $(b-2)$ is

    (i) 24 (ii) 23 (iii) 22 (iv) 20 (v) 26

12. The remainder when $(-7j^2+3j)$ is divided by $(j-1)$ is

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

13. The remainder when $(-9h^2-3h+3)$ is divided by $(h-3)$ is

(i) (-87) (ii) (-86) (iii) (-88) (iv) (-84) (v) (-90)

14. The remainder when $(-8z^3-8z^2-9)$ is divided by (z^2-4z-5) is

(i) $(-198z-209)$ (ii) $(-202z-209)$ (iii) $(-200z-209)$ (iv) $(-199z-209)$ (v) $(-201z-209)$

15. The remainder when $(-3q^4+7q^3+8q^2+7q+9)$ is divided by $(q+3)$ is

(i) (-372) (ii) (-371) (iii) (-373) (iv) (-370) (v) (-375)

16. The remainder when $(5g^4-2g^3+4g^2-2g)$ is divided by $(g-3)$ is

(i) 381 (ii) 379 (iii) 383 (iv) 382 (v) 380

17. $(-6x^3+14x^2-10x+2)\div(2x^2-4x+2)=$

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

18. $(-18x^4-66x^3-90x^2-54x-12)\div(9x^3+24x^2+21x+6)=$

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

19. $(-54x^5-135x^4+123x^3+117x^2-33x-18)$ divided by $(-18x^3-9x^2+5x+2)=$

(i) $(3x^2+6x+9)$ (ii) $(3x^2+6x-9)$ (iii) $(3x^2+5x-9)$ (iv) $(3x^2-6x-9)$ (v) $(3x^2+7x-9)$

20. $(16x^3y^4+128x^2y^3)\div 4xy^2=$

(i) $(4x^3y^3+32xy)$ (ii) $(4x^3y^4+32xy)$ (iii) $(4x^2y^2+32xy)$ (iv) $(4x^2y^2+32y^2)$ (v) $(4x^2y^2+32xy^2z)$

21. $(144x^4y^2z^4+16x^4y^2z^3+48x^3y^3z^4)\div 4x^2yz^2=$

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

(iv) $(36x^2yz^2+4x^2yz+12xy^2z^2)$ (v) $(36x^2yz^2+12xy^2z^2+4xy^2z)$

22. $(16x^3+20x^2)\div 4x$

(i) $(4x^2-5x)$ (ii) $(-4x^2+5x)$ (iii) $(4x^2+6x)$ (iv) $(4x^2+5x)$ (v) $(3x^2+5x)$

23. $(2x^4+12x^3+10x^2)\div(x^2+5x)$

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

24. $(4x^4+12x^3-36x^2-108x)\div(4x^2-36)$

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

Assignment Key

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