

EduSahara™ Learning Center Assignment**Grade : Class X, CBSE****Chapter : Polynomials****Name : Polynomial Division**

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1. The quotient when $(-6u)$ is divided by (-5) is

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

2. The quotient when $(-3b^2)$ is divided by $(b + 4)$ is

(i) $(-2b + 12)$ (ii) 12 (iii) $(-6b + 12)$
(iv) $(-4b + 12)$ (v) $(-3b + 12)$

3. The quotient when $(-3w + 9)$ is divided by $(w + 3)$ is

(i) (-3) (ii) (-2) (iii) (-4) (iv) (-1) (v) (-5)

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

(i) $(10v - 49)$ (ii) $(12v - 49)$ (iii) $(9v - 49)$
(iv) $(8v - 49)$ (v) $(7v - 49)$

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

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

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

(i) $(-2f - 13)$ (ii) $(f - 13)$ (iii) $(2f - 13)$

(iv) (-13) (v) $(3f - 13)$

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

(i) $(2d^3 - 7d^2 + 16d - 33)$

(ii) $(4d^3 - 7d^2 + 16d - 33)$

(iii) $(5d^3 - 7d^2 + 16d - 33)$

(iv) $(3d^3 - 7d^2 + 16d - 33)$

(v) $(-7d^2 + 16d - 33)$

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

(i) $(8n^4 + 29n^3 + 147n^2 + 743n + 3723)$

(ii) $(3n^4 + 29n^3 + 147n^2 + 743n + 3723)$

(iii) $(5n^4 + 29n^3 + 147n^2 + 743n + 3723)$

(iv) $(6n^4 + 29n^3 + 147n^2 + 743n + 3723)$

(v) $(4n^4 + 29n^3 + 147n^2 + 743n + 3723)$

9. The remainder when $(-4d)$ is divided by 4 is

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

10. The remainder when $(-6z^2)$ is divided by $(z + 1)$ is

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

11. The remainder when $(-4y - 6)$ is divided by _____ is

$$(y + 1)$$

- (i) (-4) (ii) (-1) (iii) (-2) (iv) 0 (v) (-3)
-

12. The remainder when $(-3w^2 - w)$ is divided by $(w + 4)$ is

- (i) (-42) (ii) (-44) (iii) (-45) (iv) (-43) (v) (-46)
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13. The remainder when $(-6k^2 + 9k - 3)$ is divided by $(k + 5)$ is

- (i) (-201) (ii) (-199) (iii) (-197) (iv) (-198) (v) (-195)
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14. The remainder when $(6s^2 + 5s - 4)$ is divided by $(s + 5)$ is

- (i) 123 (ii) 118 (iii) 121 (iv) 122 (v) 120
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15. The remainder when $(8x^4 + 9x^3 + 2x^2 - 6x - 2)$ is divided by $(x^2 - 2x - 35)$ is

- (i) $(1535x + 11618)$ (ii) $(1532x + 11618)$ (iii) $(1534x + 11618)$
(iv) $(1531x + 11618)$ (v) $(1533x + 11618)$
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16. The remainder when $(-6b^4 - 2b^3 + 3b^2 - 6b)$ is divided by $(b^2 - 2b - 63)$ is

- (i) $(-1695b - 25389)$ (ii) $(-1693b - 25389)$ (iii) $(-1697b - 25389)$
(iv) $(-1694b - 25389)$ (v) $(-1691b - 25389)$
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17. $(6x^3 - 17x^2 - 5x + 6) \div (-2x^2 + 7x - 3) =$

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

18. $(18x^4 - 63x^3 + 25x^2 + 7x - 3) \div (-9x^3 + 27x^2 + x - 3) =$

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

(iv) $(-2x + 1)$ (v) $(2x + 1)$

19. $(-54x^5 + 72x^4 + 144x^3 - 108x^2 - 90x + 36)$ divided by
 $(9x^3 - 27x - 18) =$

(i) $(-6x^2 + 8x + 2)$ (ii) $(-6x^2 - 8x - 2)$ (iii) $(-6x^2 + 7x - 2)$

(iv) $(-6x^2 + 9x - 2)$ (v) $(-6x^2 + 8x - 2)$

20. $(32x^3y^2 + 4x^2y^2) \div 2xy =$

(i) $(16x^2y + 2xy^2z)$ (ii) $(16x^3y^2 + 2xy)$ (iii) $(16x^2y + 2y^2)$

(iv) $(16x^3y^3 + 2xy)$ (v) $(16x^2y + 2xy)$

21. $(1440x^3y^3z^3 + 36x^3y^2z^3 + 180x^2y^2z^2) \div 6xyz =$

(i) $(6x^2y^2z^3 + 240x^2y^2z^2 + 30xyz)$ (ii) $(240x^2y^2z^2 + 6x^2y^2z^2 + 30xyz)$

(iii) $(240x^3y^3z^2 + 6x^2yz^2 + 30xyz)$ (iv) $(240x^3y^4z^2 + 6x^2yz^2 + 30xyz)$

(v) $(240x^2y^2z^2 + 6x^2yz^2 + 30xyz)$

22. $(3x^4 + 15x^3) \div 3x^2$

(i) $(x^2 + 5x)$ (ii) $(x^2 + 6x)$ (iii) $5x$

(iv) $(x^2 - 5x)$ (v) $(-x^2 + 5x)$

23. $(15x^4 + 19x^3 + 6x^2) \div (5x^2 + 3x)$

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

(iv) $(3x^2 - 2x)$ (v) $(2x^2 + 2x)$

$$24. (15x^4 - 50x^3 - 115x^2 - 50x) \div (3x^2 - 13x - 10)$$

$$(i) (5x^2 + 5x) \quad (ii) (5x^2 + 4x) \quad (iii) (-5x^2 + 5x)$$

$$(iv) (5x^2 - 5x) \quad (v) (5x^2 + 6x)$$

Assignment Key

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