EduSahara™ Assignment

Name : Division of Polynomials

Chapter : Factorisation

Grade : CBSE Grade VIII

1. The quotient when $(-3f)$ is divided by 2 is

   (i) $(-2f)$ (ii) $(-\frac{1}{2}f)$ (iii) $(-\frac{5}{2}f)$ (iv) $(-\frac{5}{4}f)$ (v) $(-\frac{3}{2}f)$

2. The quotient when $4w^2$ is divided by $(w-5)$ is

   (i) $(w+20)$ (ii) $(4w+20)$ (iii) $(7w+20)$ (iv) $(3w+20)$ (v) $(5w+20)$

3. The quotient when $(-6t+7)$ is divided by $(t-9)$ is

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

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

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

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

   (i) $(3j-16)$ (ii) $(4j-16)$ (iii) $(-j-16)$ (iv) $(2j-16)$ (v) $(j-16)$

6. The quotient when $(-2k^3-7k^2-2k)$ is divided by (k^2-5k-6) is

   (i) $(-k-17)$ (ii) $(-4k-17)$ (iii) $(-2k-17)$ (iv) (-17) (v) $(-3k-17)$

7. The quotient when $(7x^4-x^3+6x^2+8x-8)$ is divided by (x^2-36) is

   (i) $(7x^2-x+258)$ (ii) $(10x^2-x+258)$ (iii) $(4x^2-x+258)$ (iv) $(8x^2-x+258)$ (v) $(6x^2-x+258)$

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

   (i) $(-5q^4+31q^3-179q^2+1076q-6462)$ (ii) $(-8q^4+31q^3-179q^2+1076q-6462)$

   (iii) $(-7q^4+31q^3-179q^2+1076q-6462)$ (iv) $(-6q^4+31q^3-179q^2+1076q-6462)$

   (v) $(-4q^4+31q^3-179q^2+1076q-6462)$

9. The quotient of $(16a^2-32ab+16b^2)\div(-4a+4b)$ is

   (i) $(-4a+b)$ (ii) $(-4a+4b)$ (iii) $(-4a+6b)$ (iv) $(-3a+4b)$ (v) $(-5a+4b)$

10. The quotient of $(4a^2-8ab+4b^2)\div(-2a+2b)$ is

    (i) $(-a+2b)$ (ii) $(-2a+5b)$ (iii) $(-3a+2b)$ (iv) $(-2a)$ (v) $(-2a+2b)$

11. The quotient of $(9a^2-16b^2)\div(-3a+4b)$ is

    (i) $(-3a-7b)$ (ii) $(-3a-b)$ (iii) $(-3a-4b)$ (iv) $(-4a-4b)$ (v) $(-2a-4b)$

12. The quotient of $(-8a^3-48a^2b-96ab^2-64b^3)\div(-2a-4b)$ is

(i) $(4a^2+16ab+16b^2)$ (ii) $(5a^2+16ab+16b^2)$ (iii) $(3a^2+16ab+16b^2)$ (iv) $(4a^2+18ab+16b^2)$

(v) $(4a^2+13ab+16b^2)$

13. The quotient of $(-125a^3-75a^2b-15ab^2-b^3)\div(-5a-b)$ is

(i) $(24a^2+10ab+b^2)$ (ii) $(25a^2+10ab+b^2)$ (iii) $(25a^2+7ab+b^2)$ (iv) $(26a^2+10ab+b^2)$

(v) $(25a^2+12ab+b^2)$

14. The quotient of $(4a^2-4ab-16ac+b^2+8bc+16c^2)\div(2a-b-4c)$ is

(i) $(a-b-4c)$ (ii) $(3a-b-4c)$ (iii) $(2a-4b-4c)$ (iv) $(2a+2b-4c)$ (v) $(2a-b-4c)$

15. The quotient of $(-a^3+27b^3)\div(-a+3b)$ is

(i) $(2a^2+3ab+9b^2)$ (ii) $(3ab+9b^2)$ (iii) $(a^2+3ab+9b^2)$ (iv) $(a^2+ab+9b^2)$ (v) $(a^2+6ab+9b^2)$

16. The quotient of $(64a^3-64b^3)\div(4a-4b)$ is

(i) $(16a^2+16ab+16b^2)$ (ii) $(17a^2+16ab+16b^2)$ (iii) $(16a^2+19ab+16b^2)$ (iv) $(16a^2+13ab+16b^2)$

(v) $(15a^2+16ab+16b^2)$

17. The quotient of $(8a^3+30abc-125b^3+c^3)\div(2a-5b+c)$ is

(i) $(3a^2+10ab-2ac+25b^2+5bc+c^2)$ (ii) $(5a^2+10ab-2ac+25b^2+5bc+c^2)$

(iii) $(4a^2+12ab-2ac+25b^2+5bc+c^2)$ (iv) $(4a^2+10ab-2ac+25b^2+5bc+c^2)$

(v) $(4a^2+7ab-2ac+25b^2+5bc+c^2)$

18. $(-9x^3-24x^2-21x-6)\div(3x^2+6x+3)=$

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

19. $(-6x^4+23x^3-7x^2-27x+9)\div(-6x^3+29x^2-36x+9)=$

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

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

(i) $(2x^2y^2+18xy^3z)$ (ii) $(2x^2y^2+18xy^2)$ (iii) $(2x^3y^3+18xy^2)$ (iv) $(2x^3y^4+18xy^2)$

(v) $(2x^2y^2+18y^3)$

21. $(64x^4y^3z^2+576x^3y^4z^3+16x^3y^3z^3)\div 4x^2y^2z=$

(i) $(16x^3y^2z+144xy^2z^2+4xyz^2)$ (ii) $(16x^3y^3z+144xy^2z^2+4xyz^2)$ (iii) $(16x^2yz+144xy^2z^2+4xyz^2)$

(iv) $(16x^2yz+144xy^3z^3+4xyz^2)$ (v) $(16x^2yz+4xyz^2+144y^3z^2)$

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

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

23. $(5x^4+20x^3+15x^2)\div(x^2+3x)$

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

24. $(4x^4+8x^3-16x^2-32x)\div(4x^2-16)$

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

Assignment Key

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