EduSahara™ Assignment

Name : Division of Polynomials

Chapter : Factorisation

Grade : CBSE Grade VIII

1. The quotient when $9k$ is divided by 9 is

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

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

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

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

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

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

   (i) $(-8v+31)$ (ii) $(-5v+31)$ (iii) $(-6v+31)$ (iv) $(-3v+31)$ (v) $(-7v+31)$

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

   (i) $(8r+38)$ (ii) $(9r+38)$ (iii) $(10r+38)$ (iv) $(11r+38)$ (v) $(7r+38)$

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

   (i) $(4b^2-12b+48)$ (ii) $(b^2-12b+48)$ (iii) $(2b^2-12b+48)$ (iv) $(-b^2-12b+48)$ (v) $(3b^2-12b+48)$

7. The quotient when $(-4j^4+j^3-5j^2-5j+8)$ is divided by (j^2-j-42) is

   (i) $(-j^2-3j-176)$ (ii) $(-3j^2-3j-176)$ (iii) $(-6j^2-3j-176)$ (iv) $(-4j^2-3j-176)$ (v) $(-5j^2-3j-176)$

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

   (i) $(3d^4+15d^3+142d^2+1277d+11488)$ (ii) $(2d^4+15d^3+142d^2+1277d+11488)$

   (iii) $(5d^4+15d^3+142d^2+1277d+11488)$ (iv) $(d^4+15d^3+142d^2+1277d+11488)$

   (v) $(15d^3+142d^2+1277d+11488)$

9. The quotient of $(25a^2-20ab+4b^2)\div(-5a+2b)$ is

   (i) $(-6a+2b)$ (ii) $(-4a+2b)$ (iii) $(-5a+2b)$ (iv) $(-5a-b)$ (v) $(-5a+4b)$

10. The quotient of $(25a^2-50ab+25b^2)\div(-5a+5b)$ is

    (i) $(-4a+5b)$ (ii) $(-6a+5b)$ (iii) $(-5a+5b)$ (iv) $(-5a+3b)$ (v) $(-5a+8b)$

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

    (i) $(-3a-5b)$ (ii) $(-3a)$ (iii) $(-2a-2b)$ (iv) $(-3a-2b)$ (v) $(-4a-2b)$

12. The quotient of $(a^3-6a^2b+12ab^2-8b^3)\div(a-2b)$ is

(i) $(-4ab+4b^2)$ (ii) $(a^2-6ab+4b^2)$ (iii) $(a^2-4ab+4b^2)$ (iv) $(2a^2-4ab+4b^2)$ (v) $(a^2-ab+4b^2)$

13. The quotient of $(-125a^3-300a^2b-240ab^2-64b^3)\div(-5a-4b)$ is

(i) $(24a^2+40ab+16b^2)$ (ii) $(25a^2+42ab+16b^2)$ (iii) $(25a^2+40ab+16b^2)$ (iv) $(25a^2+38ab+16b^2)$

(v) $(26a^2+40ab+16b^2)$

14. The quotient of $(9a^2-12ab+6ac+4b^2-4bc+c^2)\div(-3a+2b-c)$ is

(i) $(-2a+2b-c)$ (ii) $(-3a-b-c)$ (iii) $(-4a+2b-c)$ (iv) $(-3a+5b-c)$ (v) $(-3a+2b-c)$

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

(i) $(25a^2+27ab+25b^2)$ (ii) $(24a^2+25ab+25b^2)$ (iii) $(25a^2+25ab+25b^2)$ (iv) $(25a^2+22ab+25b^2)$

(v) $(26a^2+25ab+25b^2)$

16. The quotient of $(-8a^3-125b^3)\div(-2a-5b)$ is

(i) $(4a^2-10ab+25b^2)$ (ii) $(3a^2-10ab+25b^2)$ (iii) $(5a^2-10ab+25b^2)$ (iv) $(4a^2-13ab+25b^2)$

(v) $(4a^2-7ab+25b^2)$

17. The quotient of $(125a^3+15abc-b^3+c^3)\div(5a-b+c)$ is

(i) $(24a^2+5ab-5ac+b^2+bc+c^2)$ (ii) $(26a^2+5ab-5ac+b^2+bc+c^2)$

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

(v) $(25a^2+8ab-5ac+b^2+bc+c^2)$

18. $(27x^3+45x^2+9x-9)\div(9x^2+6x-3)=$

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

19. $(-18x^4+6x^3+102x^2+114x+36)\div(6x^3-8x^2-26x-12)=$

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

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

(i) $(30xy^2z+6xy^2)$ (ii) $(6xy^2+30xy)$ (iii) $(6x^2y^4+30xy)$ (iv) $(6x^2y^3+30xy)$ (v) $(6xy^2+30y^2)$

21. $(28x^3y^3z^3+4x^3y^3z^2+224x^2y^3z^2)\div 2xy^2z=$

(i) $(14x^3y^2z^2+2x^2yz+112xyz)$ (ii) $(2x^2y^2z^2+14x^2yz^2+112xyz)$ (iii) $(14x^2yz^2+2x^2yz+112xyz)$

(iv) $(14x^3y^3z^2+2x^2yz+112xyz)$ (v) $(14x^2yz^2+2xy^2z+112xyz)$

22. $(12x^3+9x^2)\div 3x$

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

23. $(2x^4+7x^3+6x^2)\div(2x^2+3x)$

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

24. $(10x^4-83x^3+23x^2+8x)\div(2x^2-17x+8)$

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

Assignment Key

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