EduSahara™ Assignment

Name : Polynomial Division

Chapter : Polynomials and Factorisation

Grade : SSC Grade IX

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1. The quotient of $(9a^2-6ab+b^2)\div(-3a+b)$ is

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

2. The quotient of $(16a^2-24ab+9b^2)\div(-4a+3b)$ is

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

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

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

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

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

   (v) $(a^2+13ab+25b^2)$

5. The quotient of $(-27a^3+27a^2b-9ab^2+b^3)\div(-3a+b)$ is

   (i) $(10a^2-6ab+b^2)$ (ii) $(9a^2-8ab+b^2)$ (iii) $(9a^2-6ab+b^2)$ (iv) $(9a^2-4ab+b^2)$ (v) $(8a^2-6ab+b^2)$

6. The quotient of $(25a^2+30ab+30ac+9b^2+18bc+9c^2)\div(-5a-3b-3c)$ is

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

7. The quotient of $(8a^3+b^3)\div(2a+b)$ is

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

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

   (i) $(9a^2+6ab+b^2)$ (ii) $(9a^2+ab+b^2)$ (iii) $(10a^2+3ab+b^2)$ (iv) $(9a^2+3ab+b^2)$ (v) $(8a^2+3ab+b^2)$

9. The quotient of $(-a^3-48abc+64b^3-64c^3)\div(-a+4b-4c)$ is

   (i) $(a^2+4ab-4ac+16b^2+16bc+16c^2)$ (ii) $(2a^2+4ab-4ac+16b^2+16bc+16c^2)$

   (iii) $(a^2+ab-4ac+16b^2+16bc+16c^2)$ (iv) $(4ab-4ac+16b^2+16bc+16c^2)$

   (v) $(a^2+7ab-4ac+16b^2+16bc+16c^2)$

10. If $(4a-2b)\times A=(16a^2-16ab+4b^2)$, then A =

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

11. If $(-5a+2b)\times A=(25a^2-20ab+4b^2)$, then A =

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

12. If $(5a-4b)\times A=(25a^2-16b^2)$, then A =

(i) $(5a+2b)$ (ii) $(6a+4b)$ (iii) $(5a+4b)$ (iv) $(4a+4b)$ (v) $(5a+7b)$

13. If $(-4a+5b)\times A=(-64a^3+240a^2b-300ab^2+125b^3)$, then A =

(i) $(16a^2-38ab+25b^2)$ (ii) $(15a^2-40ab+25b^2)$ (iii) $(16a^2-42ab+25b^2)$ (iv) $(17a^2-40ab+25b^2)$

(v) $(16a^2-40ab+25b^2)$

14. If $(-4a+2b)\times A=(-64a^3+96a^2b-48ab^2+8b^3)$, then A =

(i) $(16a^2-18ab+4b^2)$ (ii) $(16a^2-16ab+4b^2)$ (iii) $(15a^2-16ab+4b^2)$ (iv) $(16a^2-13ab+4b^2)$

(v) $(17a^2-16ab+4b^2)$

15. If $(a+3b+3c)\times A=(a^2+6ab+6ac+9b^2+18bc+9c^2)$, then A =

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

16. If $(-4a-b)\times A=(-64a^3-b^3)$, then A =

(i) $(16a^2-ab+b^2)$ (ii) $(17a^2-4ab+b^2)$ (iii) $(15a^2-4ab+b^2)$ (iv) $(16a^2-4ab+b^2)$

(v) $(16a^2-6ab+b^2)$

17. If $(-4a+3b)\times A=(-64a^3+27b^3)$, then A =

(i) $(16a^2+12ab+9b^2)$ (ii) $(15a^2+12ab+9b^2)$ (iii) $(16a^2+9ab+9b^2)$ (iv) $(17a^2+12ab+9b^2)$

(v) $(16a^2+15ab+9b^2)$

18. If $(3a-5b-2c)\times A=(27a^3-90abc-125b^3-8c^3)$, then A =

(i) $(9a^2+13ab+6ac+25b^2-10bc+4c^2)$ (ii) $(9a^2+15ab+6ac+25b^2-10bc+4c^2)$

(iii) $(8a^2+15ab+6ac+25b^2-10bc+4c^2)$ (iv) $(9a^2+18ab+6ac+25b^2-10bc+4c^2)$

(v) $(10a^2+15ab+6ac+25b^2-10bc+4c^2)$

Assignment Key

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

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