EduSahara™ Assignment

Name : Remainder Theorem

Chapter : Polynomials and Factorisation

Grade : SSC Grade IX

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

   (i) $(-6s-24)$ (ii) $(-5s-24)$ (iii) $(-4s-24)$ (iv) $(-7s-24)$ (v) $(-8s-24)$

2. The quotient when $(5g+1)$ is divided by $(g-2)$ is

   (i) 4 (ii) 6 (iii) 2 (iv) 7 (v) 5

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

   (i) $(-10d-47)$ (ii) $(-7d-47)$ (iii) $(-8d-47)$ (iv) $(-6d-47)$ (v) $(-9d-47)$

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

   (i) $(5a+8)$ (ii) $(2a+8)$ (iii) 8 (iv) $(3a+8)$ (v) $(4a+8)$

5. The quotient when $(9k^5-7k^4-3k^3-7k^2+2k-6)$ is divided by $(k-2)$ is

   (i) $(8k^4+11k^3+19k^2+31k+64)$ (ii) $(9k^4+11k^3+19k^2+31k+64)$ (iii) $(12k^4+11k^3+19k^2+31k+64)$

   (iv) $(6k^4+11k^3+19k^2+31k+64)$ (v) $(10k^4+11k^3+19k^2+31k+64)$

6. The remainder when $(-7b)$ is divided by (-8) is

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

7. The remainder when $3s^2$ is divided by $(s-5)$ is

   (i) 73 (ii) 74 (iii) 78 (iv) 75 (v) 76

8. The remainder when $(9w+5)$ is divided by $(w-1)$ is

   (i) 15 (ii) 13 (iii) 12 (iv) 14 (v) 17

9. The remainder when $(7t^2+t)$ is divided by $(t-4)$ is

   (i) 114 (ii) 117 (iii) 115 (iv) 116 (v) 118

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

    (i) 181 (ii) 180 (iii) 182 (iv) 184 (v) 178

11. Find the remainder when $(3x^2+18x-21)$ is divided by $(2x+6)$

    (i) -49 (ii) -50 (iii) -48 (iv) -46 (v) -47

12. If $f(x)=(x^3+x^2-10x+8)$ and $g(x)=(6x^3+5x^2-61x+60)$ have a common factor, find the common factor

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

13. If the polynomial $x^2 + ax + b$ is divided by $(3x-3)$, it leaves a remainder -8. If it is divided by $(3x+2)$, it leaves a remainder $(-1\frac{8}{9})$. Find the value of a and b

(i) -3 , -5 (ii) -4 , -3 (iii) -6 , -5 (iv) -4 , -5 (v) -4 , -4

Assignment Key

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

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