



1. The remainder when $4j$ is divided by 6 is

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

2. The remainder when $7t^2$ is divided by $(t+8)$ is

(i) 447 (ii) 445 (iii) 449 (iv) 451 (v) 448

3. The remainder when $(3u+6)$ is divided by $(u-7)$ is

(i) 25 (ii) 28 (iii) 29 (iv) 27 (v) 26

4. The remainder when (n^2-5n) is divided by $(n+4)$ is

(i) 35 (ii) 36 (iii) 39 (iv) 34 (v) 37

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

(i) (-124) (ii) (-123) (iii) (-122) (iv) (-127) (v) (-125)

6. The remainder when $(3j^4-2j^3-8j^2-7j-5)$ is divided by (j^2-4) is

(i) $(-12j+11)$ (ii) $(-16j+11)$ (iii) $(-17j+11)$ (iv) $(-14j+11)$ (v) $(-15j+11)$

7. If 1 and -1 are the zeros of the polynomial $f(x)=16x^4 - 48x^3 + ax^2 + bx - 32$, find the value of a and b

(i) $16, 49$ (ii) $47, 15$ (iii) $49, 17$ (iv) $17, 48$ (v) $16, 48$

8. If the polynomials $-6x^2 + ax + 24$ and $ax^2 + 5x - 12$ leave the same remainder when divided by $(x-2)$, find the value of a

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

9. Which of the following are true ?

a) If $p(x)$ is divided by $(x - a)$, the remainder is $p(a)$
b) If $p(a) = 0$, then $(x + a)$ perfectly divides $p(x)$
c) Division of a polynomial with another polynomial stops when the degree of the remainder equals the degree of the divisor
d) If the degree of $p(x)$ is less than the degree of $d(x)$, we should not divide $p(x)$ with $d(x)$

(i) $\{b,d,a\}$ (ii) $\{b,a\}$ (iii) $\{c,d\}$ (iv) $\{b,c,a\}$ (v) $\{a,d\}$

10. Find the remainder when $(6x^2+12x-18)$ is divided by $(3x+3)$

(i) -26 (ii) -22 (iii) -24 (iv) -23 (v) -25

Assignment Key

1) (v)

2) (v)

3) (iv)

4) (ii)

5) (i)

6) (v)

7) (v)

8) (i)

9) (v)

10) (iii)