



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)

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