



1. The remainder when $(-p)$ is divided by 2 is
(i) (-1) (ii) 3 (iii) 1 (iv) 0 (v) (-3)
2. The remainder when $3i^2$ is divided by $(i+1)$ is
(i) 4 (ii) 5 (iii) 3 (iv) 0 (v) 2
3. The remainder when $(3f-5)$ is divided by $(f-2)$ is
(i) 3 (ii) 0 (iii) 1 (iv) 2 (v) (-2)
4. The remainder when $(3b^2+5b)$ is divided by $(b+7)$ is
(i) 114 (ii) 109 (iii) 111 (iv) 112 (v) 113
5. The remainder when $(-5q^2-4q+3)$ is divided by $(q+4)$ is
(i) (-63) (ii) (-60) (iii) (-62) (iv) (-58) (v) (-61)
6. The remainder when $(-6x^4-6x^3-3x^2-3x+8)$ is divided by $(x-1)$ is
(i) (-13) (ii) (-10) (iii) (-7) (iv) (-9) (v) (-11)
7. If $\frac{5}{2}$ and -1 are the zeros of the polynomial $f(x)=4x^4+bx^3-19x^2+23x+a$, find the value of a and b
(i) 31, -8 (ii) 30, -7 (iii) -9, 29 (iv) 30, -8 (v) -7, 31
8. If the polynomials $ax^2-2x-57$ and $-4x^2+ax+45$ leave the same remainder when divided by $(x+3)$, find the value of a
(i) 4 (ii) 5 (iii) 3 (iv) 6 (v) 7
9. Which of the following are true ?
 - a) If the degree of $p(x)$ is less than the degree of $d(x)$, we should not divide $p(x)$ with $d(x)$
 - b) Division of a polynomial with another polynomial stops when the degree of the remainder equals the degree of the divisor
 - c) If $p(a) = 0$, then $(x+a)$ perfectly divides $p(x)$
 - d) If $p(x)$ is divided by $(x-a)$, the remainder is $p(a)$(i) $\{b,c,a\}$ (ii) $\{b,a\}$ (iii) $\{c,d\}$ (iv) $\{b,d,a\}$ (v) $\{a,d\}$
10. Find the remainder when $(2x^2-x-3)$ is divided by $(3x+4)$
(i) $\frac{19}{9}$ (ii) $\frac{17}{9}$ (iii) $\frac{19}{11}$ (iv) $\frac{5}{3}$ (v) $\frac{15}{7}$

Assignment Key

1) (iv)

2) (iii)

3) (iii)

4) (iv)

5) (v)

6) (ii)

7) (iv)

8) (ii)

9) (v)

10) (ii)

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