



1. The value of the polynomial $(-5w-7)$ at $w=1$ is

- (i) -12 (ii) -9 (iii) -14 (iv) -13 (v) -11

2. The value of the polynomial $(4x^2-4x+3)$ at $x=(-5)$ is

- (i) 124 (ii) 123 (iii) 120 (iv) 126 (v) 122

3. The value of the polynomial $(-5r^3+7r^2-5)$ at $r=(-5)$ is

- (i) 797 (ii) 794 (iii) 792 (iv) 795 (v) 796

4. The value of the polynomial $(-8w^4-3w^3+6w^2-7w-5)$ at $w=3$ is

- (i) -702 (ii) -700 (iii) -703 (iv) -699 (v) -701

5. The value of the polynomial $(-5mo)$ at $m=(-3), n=(-1), o=3$ is

- (i) 43 (ii) 45 (iii) 46 (iv) 44 (v) 47

6. Find the value of k such that $kx^3-7x^2-3x+18$ is exactly divisible by $(2x+3)$

- (i) 2 (ii) -1 (iii) 3 (iv) 5 (v) 1

7. If $\frac{3}{2}$ and $(\frac{-3}{2})$ are the zeros of the polynomial $f(x)=16x^4+bx^3+ax^2-36x$, find the value of a and b

- (i) 15, -37 (ii) -35, 16 (iii) 17, -35 (iv) -36, 17 (v) -36, 16

8. Find the value of a and b such that $8x^4-8x^3+ax^2-34x+b$ is exactly divisible by $(4x^2+8x-5)$

- (i) 39, -91 (ii) -89, 40 (iii) 41, -89 (iv) -90, 41 (v) -90, 40

9. If $\frac{5}{3}$ is the zero of the polynomial $f(x)=3x^2-2x+k$, find k

- (i) -6 (ii) -7 (iii) -4 (iv) -3 (v) -5

10. If the polynomial $f(x)=2x^2-7x+k$ is exactly divisible by $(2x+5)$, find k

- (i) -29 (ii) -27 (iii) -31 (iv) -33 (v) -30

11. Which of the following are true?

- a) Zero of a polynomial and zero polynomial are synonymous
- b) A linear polynomial in one variable has only one root
- c) Zero of a polynomial is the value of the variable for which the polynomial value is zero
- d) Zero of a polynomial and root of the polynomial are synonymous
- e) If $(x + a)$ is a factor of $f(x)$, then $f(a) = 0$
- f) If $(x - a)$ is a factor of $f(x)$, then $f(a) = 0$
- g) A polynomial of degree n has at most n zeros

(i) {a,b} (ii) {a,f,g} (iii) {b,c,d,f,g} (iv) {a,e,d} (v) {e,c}

12. Given $f(v) = (6v - 7)$, find $f(5)$

(i) 24 (ii) 26 (iii) 23 (iv) 21 (v) 22

13. Given $f(n) = (3n^2 + 9n - 3)$, find $f((-3))$

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

14. Given $f(s) = (5s^3 - s^2 - 4s)$, find $f(2)$

(i) 29 (ii) 27 (iii) 31 (iv) 26 (v) 28

15. Given $f(t) = (7t^4 + 6t^3 + 8t^2 + t - 7)$, find $f(3)$

(i) 798 (ii) 799 (iii) 797 (iv) 796 (v) 794

Assignment Key

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