PUBLIC SCHOOL DARBHANGA
SESSION (2020-21)
CLASS-VI
MATHEMATICS
POLYNOMIALS
Worksheet no.2

1. Find the value of the polynomial $(x)=5x-4x^2+3$

(i)   x= 0

(ii)   x = −

1

(iii)   x = 2

2. Find p(0), p(1) and p(2) for each of the following polynomials:

(i) $p(y)=y^2-y+1$

(ii) $p(t)=2+t+2t^2-t$

(iii)   p(x)=x3

(iv)p(x)=(x−1)(x+1)

3. Following are zeroes of the polynomial, indicated against them.

(i) p(x)=3x+1, $x=-\mathbf{1}$

(ii) p(x)=5x−π, $x=\mathbf{4}$

                    5

(iii) $p(x)=x^2-1$, x=1, −1

(iv) p(x)=(x+1)(x−2), x= −1, 2

(v) $p(x)=x^2$, x=0

4. Find the zero of the polynomial in each of the following cases:

(i) p(x) = x + 5

(ii) p(x) = x − 5

(iii)p(x) = 2x + 5   (iv)p(x) = 3x − 2

(v) p(x) = 3x

(vi)p(x) = ax, a≠0

(vii)p(x) = cx + d, c ≠ 0, c, d are real numbers.

5. Find the remainder when x^3+3x^2+3x+1 is divided by

(i) x+1

(ii) x+π

(iii 5 +2x