

# Mathematics

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(Chapter – 2) (Polynomials)(Exemplar Problems)

(Class – IX)

## Exercise 2.3

### Question 11:

Find the zeroes of the polynomial in each of the following:

(i)  $p(x) = x - 4$

(ii)  $g(x) = 3 - 6x$

(iii)  $q(x) = 2x - 7$

(iv)  $h(y) = 2y$

### Answer 11:

(i)  $p(x) = x - 4$

For zeroes, put  $p(x) = 0$

$$\Rightarrow x - 4 = 0$$

$$\Rightarrow x = 4.$$

(ii)  $g(x) = 3 - 6x$

For zeroes, put  $g(x) = 0$

$$\Rightarrow 3 - 6x = 0$$

$$\Rightarrow x = \frac{3}{6} = \frac{1}{2}.$$

(iii)  $q(x) = 2x - 7$

For zeroes, put  $q(x) = 0$

$$\Rightarrow 2x - 7 = 0$$

$$\Rightarrow x = \frac{7}{2}.$$

(iv)  $h(y) = 2y$

For zeroes, put  $h(x) = 0$

$$\Rightarrow 2y = 0$$

$$\Rightarrow y = \frac{0}{2} = 0.$$

