

# Mathematics

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

(Class – IX)

## Exercise 2.3

### Question 4:

Write the coefficient of  $x^2$  in each of the following:

(i)  $\frac{\pi}{6}x + x^2 - 1$

(ii)  $3x - 5$

(iii)  $(x - 1)(3x - 4)$

(iv)  $(2x - 5)(2x^2 - 3x + 1)$

### Answer 4:

(i) 1

The coefficient of  $x^2$  in  $\frac{\pi}{6}x + x^2 - 1$  is 1.

(ii) 0

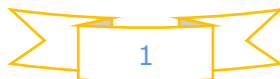
The coefficient of  $x^2$  in  $3x - 5$  is 0 as there is not any term containing  $x^2$ .

(iii) Given that:  $(x - 1)(3x - 4) = 3x^2 - 7x + 4$

The coefficient of  $x^2$  in  $3x^2 - 7x + 4$  is 3.

(iv) Given that:  $(2x - 5)(2x^2 - 3x + 1) = 4x^3 - 16x^2 + 17x - 5$

The coefficient of  $x^2$  in  $4x^3 - 16x^2 + 17x - 5$  is -16.



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