## QUADRATIC EQUATIONS

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## $10^{th}$ Maths - Chapter 4

This is Problem-2.2 from Exercise 4.1

1. Represent the following situations in the form of quadratic equations: The product of two consecutive positive integers is 306. We need to find the integers.

## Solution: :

Required quadratic equation is : Let integers be n and (n+1)

$$n(n+1) = 306 \tag{1}$$

$$n^2 + n - 306 = 0 (2)$$

$$(n+17)(n-16) = 0 (3)$$

(4)

Therefore, n=16 and integers are 16 and 17.