

## Relations

### EXERCISE 2A

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1. Find the values of  $a$  and  $b$ , when:

(i)  $(a + 3, b - 2) = (5, 1)$

(ii)  $(a + b, 2b - 3) = (4, -5)$

(iii)  $\left(\frac{a}{3} + 1, b - \frac{1}{3}\right) = \left(\frac{5}{3}, \frac{2}{3}\right)$

(iv)  $(a - 2, 2b + 1) = (b - 1, a + 2)$

**Solution:** Since, the ordered pairs are equal, the corresponding elements are equal.  $\therefore, a + 3 = 5 \dots (i)$  and  $b - 2 = 1 \dots (ii)$

Solving eq. (i), we get

$$a + 3 = 5$$

$$\Rightarrow a = 5 - 3$$

$$\Rightarrow a = 2$$

Solving eq. (ii), we get

$$b - 2 = 1$$

$$\Rightarrow b = 1 + 2$$

$$\Rightarrow b = 3$$

Hence, the value of  $a = 2$  and  $b = 3$ .

(ii) Since, the ordered pairs are equal, the corresponding elements are equal.

$$\therefore, a + b = 4 \dots (i) \text{ and } 2b - 3 = -5 \dots (ii)$$

Solving eq. (ii), we get

$$2b - 3 = -5$$

$$\Rightarrow 2b = -5 + 3$$

$$\Rightarrow 2b = -2$$

$$\Rightarrow b = -1$$

# Answers Of R S Aggarwal 9 Maths

**I.S. Chawla**



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