

$$(ii) A_2 = \{x : x^2 - 4x - 5 = 0\}$$

$$\therefore x^2 - 4x - 5 = 0$$

$$\Rightarrow x^2 - 5x + x - 5 = 0$$

$$\Rightarrow x(x-5) + 1(x-5) = 0$$

$$\Rightarrow (x-5)(x+1) = 0$$

$$\therefore \text{Either } x-5=0 \text{ or } x+1=0$$

$$\Rightarrow x=5 \quad \Rightarrow x=-1$$

\therefore Given set in roster (tabular) Form is

$$A_2 = \{5, -1\}$$

$$(iii) A_3 = \{x : x \in \mathbb{Z}, -3 < x < 4\}$$

$$\therefore -3 < x < 4$$

$$\therefore x = -3, -2, -1, 0, 1, 2, 3$$

\therefore Given set in roster (tabular) Form is

$$A_3 = \{-3, -2, -1, 0, 1, 2, 3\}$$

$$(iv) A_4 = \{x : x \text{ is a two digit number and sum of digits of } x \text{ is } 7\}$$

\therefore x is a two digit number and sum of digits is 7

$$\therefore x = 16, 25, 34, 43, 52, 61, 70$$

\therefore Given set in roster (tabular) Form is

$$A_4 = \{16, 25, 34, 43, 52, 61, 70\}$$