

Exercise \Rightarrow 2.2(A)

1) Solve:

$$\Rightarrow x + 2 = 6$$

$$\Rightarrow x + 2 - 2 = 6 - 2$$

$$\Rightarrow x = 4$$

$$\text{ii) } x + 6 = 2$$

$$\text{Ans } x + 6 - 6 = 2 - 6$$

$$\Rightarrow x = 2 - 6$$

$$\Rightarrow x = -4$$

$$\text{iii) } y + 8 = 5$$

$$\text{Ans } y + 8 - 8 = 5 - 8 = -3$$

$$\Rightarrow y = -3$$

$$\text{iv) } x + 4 = -3$$

$$\text{Ans } x + 4 - 4 = -3 - 4$$

$$\Rightarrow x = -7$$

$$\text{v) } y + 2 = -8$$

$$\text{Ans } y + 2 - 2 = -8 - 2$$

$$\Rightarrow y = -10$$

$$\text{vi) } b + 2.5 = 4.2$$

$$\text{Ans } b + 2.5 - 2.5 = 4.2 - 2.5$$

$$\Rightarrow b = 1.7$$

$$\text{vii) } p + 4.6 = 8.5$$

$$\text{Ans } p + 4.6 - 4.6 = 8.5 - 4.6$$

$$\Rightarrow p = 3.9$$

$$\text{viii) } y + 3.2 = -6.5$$

$$\text{Ans } y + 3.2 - 3.2 = -6.5 - 3.2$$

$$\Rightarrow y = -9.7$$

$$\text{ix) } a + 8.9 = -12.6$$

$$\text{Ans } a + 8.9 - 8.9 = -12.6 - 8.9$$

$$\Rightarrow a = -21.5$$

$$\text{ix) } a + 8.9 = -12.6$$

$$\text{Ans } a + 8.9$$

$$a + 8.9 - 8.9 = -12.6 - 8.9$$

$$\Rightarrow a = -21.5$$

$$\text{x) } x + 2\frac{1}{3} = 5$$

$$\text{Ans } x + 2\frac{1}{3} - 2\frac{1}{3} = 5 - 2\frac{1}{3}$$

$$\Rightarrow x = 5 - \frac{7}{3}$$

$$\Rightarrow x = \frac{15 - 7}{3} = \frac{8}{3} = 2\frac{2}{3}$$

$$\Rightarrow x = 2\frac{2}{3}$$

$$\text{xii) } z + 2 = 4\frac{1}{5} \Rightarrow z + 2 - 2 = 4\frac{1}{5} - 2$$

$$\text{Ans } \Rightarrow z + 2 - 2 = 4\frac{1}{5} - 2$$

$$\Rightarrow z = \frac{21}{5} - \frac{2}{1} = \frac{21 - 10}{5} = \frac{11}{5} = 2\frac{1}{5}$$

$$\Rightarrow z = 2\frac{1}{5}$$

$$\text{xiii) } m + 3\frac{1}{2} = 4\frac{1}{4}$$

$$\text{Ans } m + 3\frac{1}{2} - 3\frac{1}{2} = 4\frac{1}{4} - 3\frac{1}{2}$$

$$\Rightarrow m = \frac{17}{4} - \frac{7}{2} = \frac{17 - 14}{4} = \frac{3}{4}$$

$$\Rightarrow m = \frac{3}{4}$$

$$\text{xiii) } x + 2 = \frac{1}{4}$$

$$\text{Ans } \Rightarrow x + 2 - 2 = \frac{1}{4} - 2$$

$$\Rightarrow x = \frac{1}{4} - \frac{8}{4} = \frac{1-8}{4}$$

$$\Rightarrow \frac{5}{4} - \frac{8}{4} = \frac{5-8}{4} = \frac{-3}{4}$$

$$\Rightarrow \boxed{x = -\frac{3}{4}}$$

$$\text{xiv) } y + 5\frac{1}{3} = 4$$

$$\text{Ans } y + 5\frac{1}{3} - 5\frac{1}{3} = 4 - 5\frac{1}{3}$$

$$\Rightarrow y = 4 - 5\frac{1}{3} = \frac{12-16}{3}$$

$$\Rightarrow y = \frac{12}{3} - \frac{16}{3} = \frac{12-16}{3} = \frac{-4}{3}$$

$$\Rightarrow \boxed{y = -\frac{4}{3}}$$

$$\text{xv) } a + 3\frac{1}{5} = 1\frac{1}{2}$$

$$\text{Ans } a = 1\frac{1}{2} - 3\frac{1}{5}$$

$$\Rightarrow \frac{3}{2} - \frac{16}{5} = \frac{15-32}{10}$$

$$\Rightarrow a = \frac{15-32}{10} = \frac{-17}{10}$$