

$$\begin{aligned}
 6 \text{ (ii)} \quad & 3(x+2) + 5x - 7 \\
 & = 3x + 6 + 5x - 7 \\
 & = 8x - 1 \\
 & \text{put } x = 2 \\
 & = 8 \times 2 - 1 \\
 & = 16 - 1 \\
 & = 15
 \end{aligned}$$

$$\begin{aligned}
 7 \text{ (i)} \quad & 3x - 5 - x + 9 \\
 & = 2x + 4 \\
 & \text{put } x = 3 \\
 & = 2 \times 3 + 4 \\
 & = 6 + 4 \\
 & = 10
 \end{aligned}$$

$$\begin{aligned}
 \text{(iii)} \quad & 6x + 5(x-2) \\
 & = 6x + 5x - 10 \\
 & = 11x - 10 \\
 & \text{put } x = 2 \\
 & = 11 \times 2 - 10 \\
 & = 22 - 10 \\
 & = 12
 \end{aligned}$$

$$\begin{aligned}
 7 \text{ (ii)} \quad & 2 - 8x + 4x + 4 \\
 & = -4x + 6 \\
 & \text{put } x = 3 \\
 & = -4 \times 3 + 6 \\
 & = -12 + 6 \\
 & = -6
 \end{aligned}$$

$$\begin{aligned}
 \text{(iv)} \quad & 4(2x-1) + 3x + 11 \\
 & = 8x - 4 + 3x + 11 \\
 & = 11x + 7 \\
 & \text{put } x = 2 \\
 & = 11 \times 2 + 7 \\
 & = 22 + 7 \\
 & = 29
 \end{aligned}$$

$$\begin{aligned}
 7 \text{ (iii)} \quad & 3a + 5 - 8a + 1 \\
 & = -5a + 6 \\
 & \text{put } a = -1 \\
 & = -5(-1) + 6 \\
 & = 5 + 6 \\
 & = 11
 \end{aligned}$$