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$$\begin{aligned} & \quad \quad \quad + \quad \quad \quad x \\ (i) \quad & x^2 + 8x + 15 = 0 \\ & (x+5)(x+3) = 0 \\ & x+5 = 0 \quad \quad x+3 = 0 \\ & x = -5 \quad \quad x = -3 \end{aligned}$$

$$(ii) \quad x^2 - 225 = 0$$

$$\begin{aligned} x^2 &= 225 \\ x &= \pm 15 \\ x &= 15 \end{aligned}$$

$$\begin{aligned} (iii) \quad & x^2 + 11x + 30 = 0 \\ & (x+6)(x+5) = 0 \\ & x+6 = 0 \quad x+5 = 0 \\ & x = -6 \quad x = -5 \end{aligned}$$

$$\begin{aligned} (iv) \quad & x^2 - 6x + 8 = 0 \\ & 2x^2 + 7x + 2x + 7 = 0 \\ & x(2x+7) + 2x+7 = 0 \\ & \quad \quad \quad (2x+7)(x+1) = 0 \\ & 2x+7 = 0 \quad \quad x+1 = 0 \\ & x = \frac{7}{2} \quad \quad x = -1 \end{aligned}$$

$$\begin{aligned} (v) \quad & 2x^2 + 9x + 7 = 0 \\ & x(2x+7) + 2x+7 = 0 \\ & (2x+7)(x+1) = 0 \\ & 2x+7 = 0 \quad \quad x+1 = 0 \end{aligned}$$