

Stoohran Applend
(ACHA3000)

1901059
3/11/20 15:08

$$\begin{aligned} 3(i) \quad & x^2 + 12x + 20 = 0 \quad 1 \times 20 \\ & (x+2)(x+10) = 0 \quad 2 \times 10 \\ & x = -2 \quad x = -10 \end{aligned}$$

$$\begin{aligned} (iv) \quad & x^2 - 64 = 0 \\ & (x+8)(x-8) \\ & x = -8 \quad x = +8 \end{aligned}$$

$$\begin{aligned} (v) \quad & 2x^2 + 9x + 10 = 0 \quad 1 \times 10 \\ & 2(x+2)(x+5) = 0 \quad 2 \times 5 \\ & \cancel{10x+20} \\ & x = -2 \quad x = -5 \end{aligned}$$

$$\begin{aligned} 4 \quad & 14x^2 + 3x = 11 \\ & 14x^2 + 3x - 11 = 0 \\ & x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \\ & x = \frac{-3 \pm \sqrt{3^2 - 4 \times 14 \times -11}}{2 \times 14} \end{aligned}$$

$$x_+ = 0.79 \quad x_- = -1.00$$