

3pm

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ACHA 3000

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3. ii) $x^2 - 3x + 2 = 0$

$$\text{Foil } (x - 1)(x - 2) \quad \underline{-1 - 2}$$

$$x^2 - 2x - 1x + 2 = 0 \checkmark$$

$x = 0 + 1$

$\boxed{x = 1}$

$x = 0 + 2$

$\boxed{x = 2}$

iii) $x^2 + 12x + 20 = 0$

$$\text{Foil } (x + 10)(x + 2) \quad \underline{10 \times 2}$$

$$x^2 + 2x + 10x + 20 \checkmark$$

$x = 0 - 10$

$\boxed{x = -10}$

$x = 0 - 2$

$\boxed{x = -2}$

iv) $x^2 - 64 = 0$

$\sqrt{64} = 8$

$\boxed{x = 8} \quad \boxed{x = -8}$

v) $2x^2 + 9x + 10 = 0$

$$\text{Foil } (2x + 5)(x + 2)$$

$$2x^2 + 4x + 5x + 10 \checkmark$$

$$\begin{array}{l} 1 \times 10 \\ 2 \times 5 \\ 5 \times 2 \\ 10 \times 1 \end{array}$$

$2x + 5 = 0$

$x + 2 = 0$