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MODULE CODE: ACHA3000

$$1 \text{ i) } x^2 + 8x + 15 = 0$$

$$(x+3)(x+5) = 0$$

$$x^2 + 5x + 3x + 15$$

$$\underline{8x}$$

$$x + 5 = 0$$

$$\boxed{x = -5}$$

$$x + 3 = 0$$

$$\boxed{x = -3}$$

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

$$x^2 = 225$$

$$(x-15)(x+15) =$$

$$x^2 + 15x + (-15)x - 225 = 0$$

$$x^2 - 225 = 0$$

$$x = \sqrt{225}$$

$$\boxed{x = 15}$$

$$x = \sqrt{-225}$$

$$\boxed{x = -15}$$