

$$(iv) (x+2)^2 = (x+3)(x+5) \quad ③$$

$$(x+2)(x+2)$$

$$x^2 + 2x + 2x + 4 = x^2 + 4x + 4$$

$$(x+3)(x+5)$$

$$x^2 + 3x + 5x + 15 = x^2 + 8x + 15$$

$$x^2 + 4x + 4 = x^2 + 8x + 15 \quad -x^2$$

$$4x + 4 = 8x + 15 \quad -15$$

$$4x - 11 = 8x \quad -4x$$

$$-11 = 4x$$

$$-\frac{11}{4} = x \quad x = -\frac{11}{4}$$

3)

$$(i) x^2 + 9x + 14 = 0$$

$$(x+7)(x+2) \quad x^2 + 7x + 2x + 14$$

$$x^2 + 9x + 14 = 0$$