

$$d) x^2 + 19x + 90 = 0$$

$$(x+10)(x+9) = 0$$

$$x = -10 \quad x = -9$$

$$ii) x^2 - 5x + 6 = 0$$

$$(x-3)(x-2) = 0$$

$$x = 3 \quad x = 2$$

$$iii) x^2 + 8x = 9$$

$$x^2 + 8x - 9 = 0$$

$$(x+9)(x-1) = 0$$

$$x = -9 \quad x = 1$$

$$iv) x^2 - 225 = 0$$

$$(x-15)(x+15) = 0$$

$$x = 15 \quad x = -15$$

$$e) (x+2)^2 - x^2 - 2 = (x+5)(x+1) - x^2$$

$$(x+2)(x+2) - x^2 - 2 = x^2 + x + 5x - x^2$$

$$x^2 + 2x + 2x + 4 - x^2 - 2 = 6x + 5$$

$$4x + 2 = 6x + 5$$

$$0 = 2x + 3$$

$$-3/2 = x$$