

$$b) i) \quad x^2 + 6x + 8 = 0$$

$$(x+2)(x+4) = 0$$

$$\underline{x = -2} \quad \underline{x = -4}$$

$$ii) \quad x^2 - 10x + 24 = 0$$

$$(x-6)(x-4) = 0$$

$$\underline{x = 6} \quad \underline{x = 4}$$

$$iii) \quad x^2 - 64 = 0$$

$$(x-8)(x+8) = 0$$

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

$$iv) \quad 2x^2 + 3x = 14$$

$$2x^2 + 3x - 14 = 0$$

$$(x-2)(2x+7) = 0$$

$$\underline{x = 2} \quad \underline{x = -\frac{7}{2}}$$

$$③ a) \quad 0^\circ \leq x \leq 360^\circ$$

$$i) \quad \cos x = 0.24$$

$$\underline{x = 76.11^\circ}$$

$$\underline{x = 76.11^\circ, 283.89^\circ}$$

