

①

$$(i) x^2 + 8x + 15 = 0$$

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

$$x+5=0$$

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

$$x+3=0$$

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

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(ii)

$$x^2 - 225 = 0$$

$$x^2 - 15^2 = 0$$

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

$$x-15=0$$

$$x=15$$

$$x+15=0$$

$$x=-15$$

$$(iii) x^2 + 11x + 30 = 0$$

$$(x+6)(x+5) = 0$$

$$x+6=0$$

$$\boxed{x = -6}$$

$$x+5=0$$

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

$$(iv) x^2 - 6x + 8 = 0$$

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

$$x-4=0$$

$$\boxed{x = 4}$$

$$x-2=0$$

$$\boxed{x = 2}$$

$$(v) 2x^2 + 9x + 7 = 0$$

$$(2x+1)$$

$$(x+7)$$

$$(2x+1)(x+7) = 0$$

$$2x+1=0$$

$$2x=-1$$

$$\boxed{x = -\frac{1}{2}}$$

$$x+7=0$$

$$\boxed{x = -7}$$