

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

$$4 \times 2 = 8$$

$$4 + 2 = 6$$

$$(x-4)(x-2)$$

$$x^2 - 2x - 4x + 8 = 0$$

$$= -6x$$

$$\begin{cases} x-4=0 & x-2=0 \\ \boxed{x=4} & \boxed{x=2} \end{cases}$$

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

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

$$2x^2 + 14x + x + 7 = 0 \quad X$$

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

↓ ☹

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

~~$$2x^2 + 14x + x + 7 = 0$$~~

~~$$(2x+7)(x+1)$$~~

~~$$2x^2 + 22x + 7x + 7 = 0$$~~

~~$$-9x$$~~

~~$$(2x+1)(x-7)$$~~

~~$$2x^2 + 14x - 14x - 7 = 0$$~~

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

$$2x^2 + 2x + 7x + 7 = 0$$

$$9x$$

$$2x+7=0$$

$$x+1=0$$

$$2x = -7$$

$$\boxed{x = -3.5}$$

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

↑ ☹