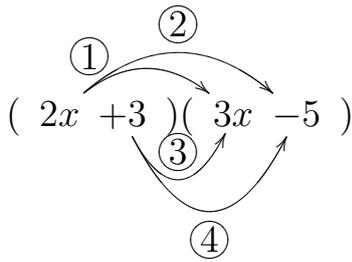


$(2x + 3)(3x - 5)$ を展開する。



①～④のように () の中の項をそれぞれかける。* +、- に注意！

$$= \frac{6x^2}{\textcircled{1}} \quad \frac{-10x}{\textcircled{2}} \quad \frac{+9x}{\textcircled{3}} \quad \frac{-15}{\textcircled{4}}$$

同類項があれば計算する

$$= 6x^2 - x - 15 \quad \dots \text{解}$$

1. $(3x - 2)(-x + 4)$
 $= -3x^2 + 12x + 2x - 8$
 $= -3x^2 + 14x - 8$

2. $(a + 4b)(3a - 6b)$
 $= 3a^2 - 6ab + 12ab - 24b^2$
 $= 3a^2 + 6ab - 24b^2$

3.

The diagram illustrates the FOIL method for expanding $(x + 2y)(-x + 4y + 1)$. It shows two binomials: $(x + 2y)$ and $(-x + 4y + 1)$. Six arrows indicate the multiplication steps:

- Arrow 1: From x to $-x$.
- Arrow 2: From x to $4y$.
- Arrow 3: From x to 1 .
- Arrow 4: From $2y$ to $-x$.
- Arrow 5: From $2y$ to $4y$.
- Arrow 6: From $2y$ to 1 .

$$= -x^2 + 4xy + x - 2xy + 8y^2 + 2y$$

$$= -x^2 + x + 4xy - 2xy + 2y + 8y^2$$

$$= -x^2 + x + 2xy + 2y + 8y^2$$

4. $2(x - 3)(3x + 1)$
 $= 2(3x^2 + x - 9x - 3)$
 $= 2(3x^2 - 8x - 3)$
 $= 6x^2 - 16x - 6$