



# Decomposition



1.  $20w^2 - 17w + 3$
2.  $6x^2 - 11xy - 10y^2$
3.  $3x^2 + 3x - 6$

①.

$$20w^2 - 17w + 3$$

$$20w^2 - 5w - 12w + 3$$

$$5w(4w - 1) - 3(4w - 1)$$

$$(4w - 1)(5w - 3)$$

②.

$$6x^2 - 11xy - 10y^2$$

$$6x^2 - 15xy + 4xy - 10y^2$$

$$3x(2x - 5y) + 2y(2x - 5y)$$

$$(2x - 5y)(3x + 2y)$$

③.

$$3x^2 + 3x - 6$$

$$3x^2 - 3x + 6x - 6$$

$$3x(x-1) + 6(x-1)$$

$$(x-1)(3x+6)$$

$$(x-1)3(x+2)$$

$$3(x-1)(x+2)$$

OR

$$3x^2 + 3x - 6$$

$$3(x^2 + x - 2)$$

$$3(x+2)(x-1)$$