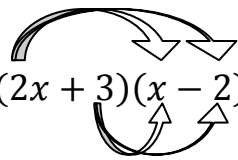


MPM 2D

EXPANDING QUADRATIC EXPRESSIONS

Quadratic expressions can be expanded into **standard form** using the **distributive property**, then simplified by collecting like terms.

Expand and simplify each expression.

①  $(2x + 3)(x - 2)$
 $= 2x^2 - 2x + 3x - 6$
 $=$

② $(3x - 5)^2$

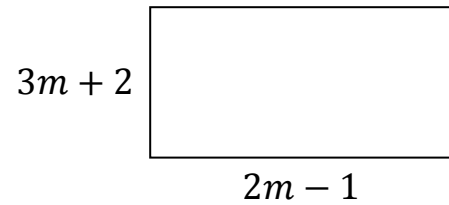
③ $(2n + 7)(2n - 7)$

④ $-2(d - 4)(5d + 2)$

⑤ $3(3x - 4y)(2x - y)$

⑥ $(2w + 3k)(w - k) - (w + 2k)^2$

- ⑦ Write a simplified expression for the area of the rectangle.



- ⑧ Determine the equation of the parabola with zeros -2 and 8 and passes through the point (3, 7). Write the equation in standard form.

- ⑨ Determine the equation of the parabola in standard form.

