

Example 2: Expand and Simplify.

a) $(3x - 5y)^2$ rewrite

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

$$9x^2 - 15xy - 15xy + 25y^2$$

like terms

$$9x^2 - 30xy + 25y^2$$

c) $4x(x - 4) + 3x^2(x + 2)$

$$4x^2 - 16x + 3x^3 + 6x^2$$

like terms

$$10x^2 - 16x + 3x^3$$

d) $(2x - 1)(3x + 1) - 4(6x - 5)$

$$6x^2 + 2x - 3x - 1 - 24x + 20$$

$$6x^2 - 25x + 19$$

b) $3(y + 9)(y - 8)$ Only multiply by 3 once.

$$(3y + 27)(y - 8)$$

$$3y^2 - 24y + 27y - 216$$

like terms

$$3y^2 + 3y - 216$$

choose 3 questions from # 26 - 30

choose 6 questions from # 59 - 67