

6.5 Multiplying Polynomials

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

$$(3x - 4)(2x - 1)$$

$$6x^2 - 3x - 8x + 4$$

$$\underline{6x^2 - 11x + 4}$$

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$$(x + 4)^2$$

$$(x + 4)(x + 4)$$

$$x^2 + 4x + 4x + 16$$

$$\underline{x^2 + 8x + 16}$$

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

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

$$\underline{2x^3 + 3x^2 + 4x - 3}$$

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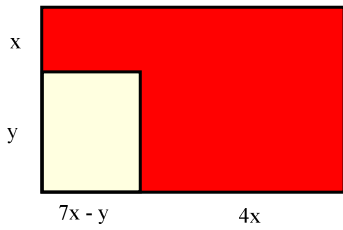
Expand and simplify

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

$$\begin{aligned} & \underbrace{(x+3)} \underbrace{(3x-2)} - \underbrace{(3x-1)} \underbrace{(3x-1)} \\ & 3x^2 - 2x + 9x - 6 \quad 9x^2 - 3x - 3x + 1 \\ & (3x^2 + 7x - 6) - (9x^2 - 6x + 1) \\ & -6x^2 + 13x - 7 \end{aligned}$$

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Write an expression for the area of the shaded region



$$\begin{aligned} & \text{Area of large } \square - \text{Area of small } \square \\ & \underbrace{(x+y)} \underbrace{(11x-y)} - (7x-y)(y) \\ & (11x^2 - xy + 11xy - y^2) - (7xy - y^2) \\ & 11x^2 + 3xy \end{aligned}$$

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Expand

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

$$(2x - y)(2x - y)(2x - y)$$

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

$$(4x^2 - 4xy + y^2)(2x - y)$$

$$8x^3 - 8x^2y + 2xy^2$$

$$-4x^2y + 4xy^2 - y^3$$

$$\underline{8x^3 - 12x^2y + 6xy^2 - y^3}$$

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Assignment:**Pg. 357****2 and 3 odds****10ac****17 and 18 odds****19 and 21 odds**

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