

Name: _____ Date: _____

Homework
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Like Terms

In your own words, describe what a **like term** means. Give examples if that is helpful.

Write at least **3 different expressions**, that when combined, make $5x - 9$ Use algebra tiles, drawings, if that is helpful.

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Adding Polynomials

Draw the algebra tiles that represents each expression, then add them. Write your sum.

$$(-3x + 5) + (-6x - 3)$$



Based on the following expression, what's missing? Explain how you got your answer.

$$4a + 5 + 9 + \underline{\hspace{2cm}} = -3a + 14$$

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Exponent Rules/Multiplication/Division

Joan write the following in standard form. Explain why she is correct or incorrect. Use the vocabulary (coefficient, constant, exponent) in your explanation.

$$-6x^3 + 5x + 4x^2 - 9$$

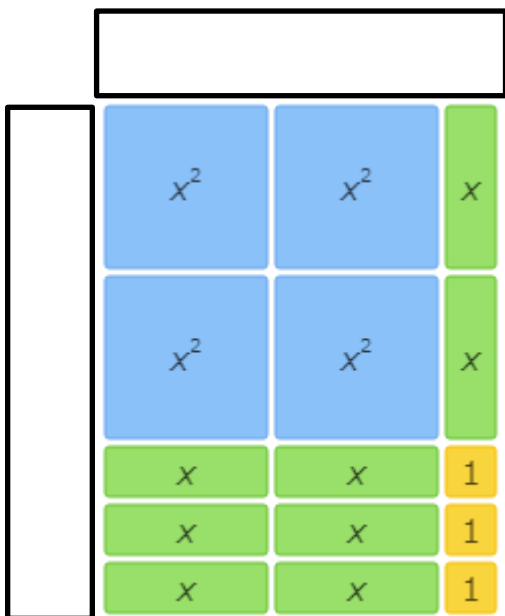
If $y = x^2 - 5$ and $z = 3x^2 - 12$, which polynomial is equivalent to $2(y + z)$? Below is Sam's work. Is she correct? Justify with work.

$$2(y+z)$$
$$2(x^2(5) + 3x^2(12))$$
$$2(3x^2 - 17)$$

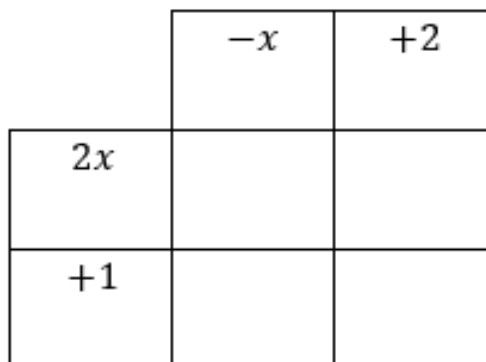
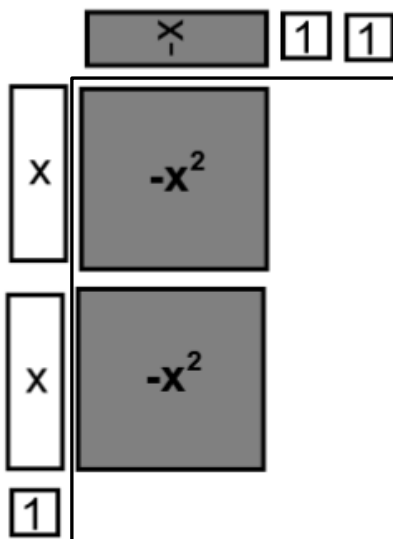
$$6x^2 - 34$$

Multiplying Binomials

Based on this area model what are the two binomials that were multiplied? Fill in the blank boxes below with tiles or with expressions.



Complete either visual model for the following problem: $(2x + 1)(-x + 2)$



Then write the final answer = _____