

## Polynomial Equivalency

Test your ability to find equivalent polynomials!

- Use the set of hexagon cards provided. Some blank cards are provided if you wish to extend the game by adding your own polynomials.
- Cut out the cards and lay them face up.
- Connect the hexagons to form a “honeycomb” shape so that touching sides represent equivalent polynomials.
- Challenge yourself or other teams to see how quickly you can identify equivalent polynomials.

**Hint:** Blank sides form the border of your honeycomb!



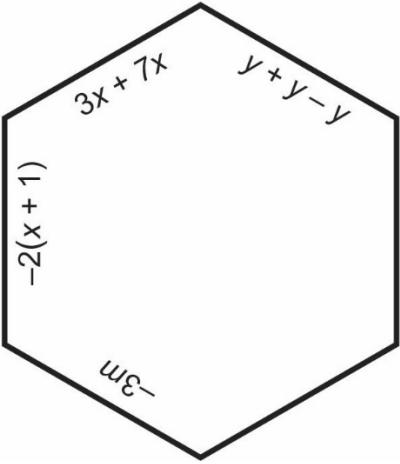
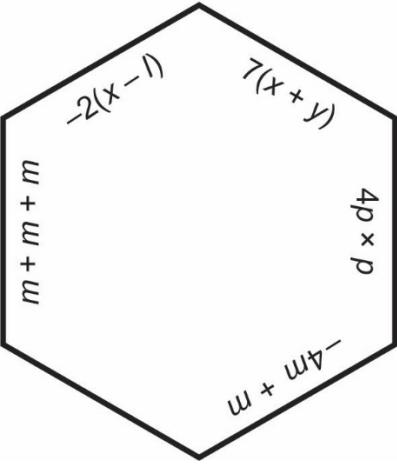
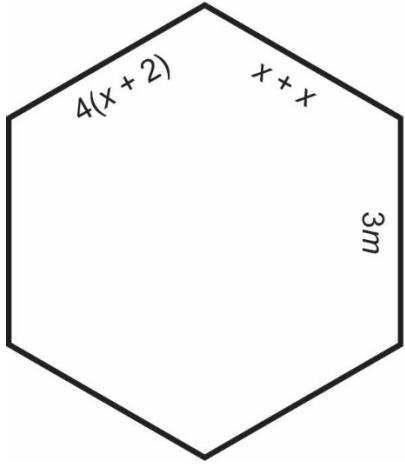
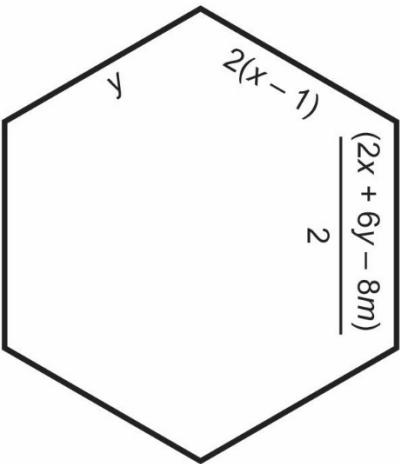
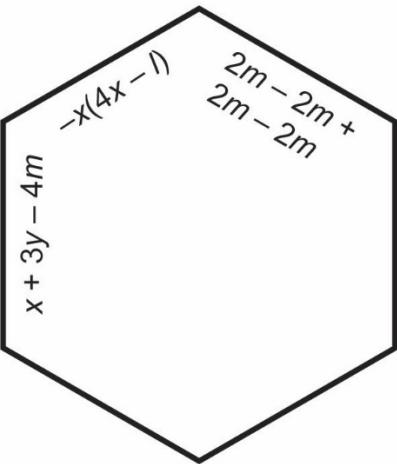
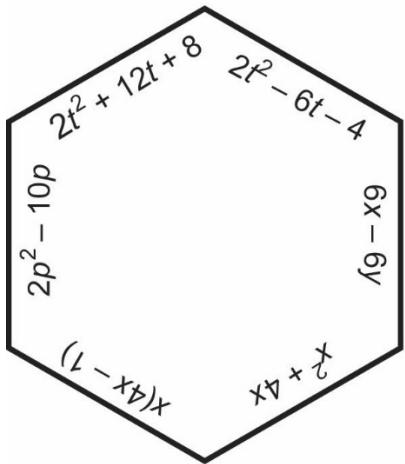
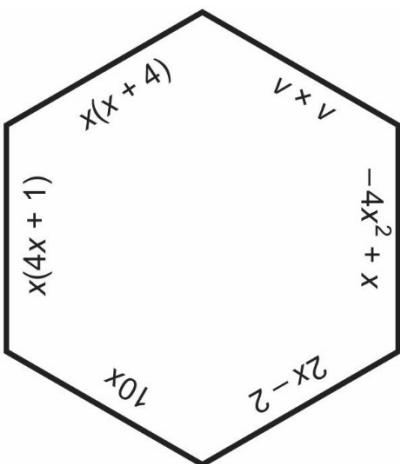
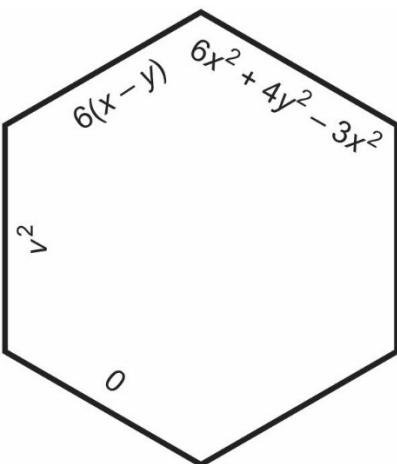
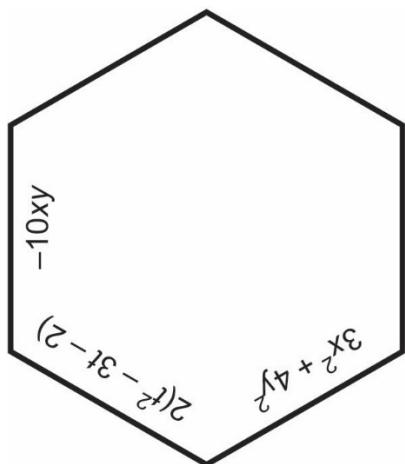
Why do honeybees use a hexagonal shape in their honeycombs?

Name \_\_\_\_\_ Date \_\_\_\_\_

**Patterns and Relations**  
Unit 1 Line Master 7b

## Polynomial Equivalency (cont'd)

### Hexagon Cards (Sheet 1)



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**Patterns and Relations**  
Unit 1 Line Master 7c

## Polynomial Equivalency (cont'd)

### Hexagon Cards (Sheet 2)

$$\begin{aligned} & 2(x^2 - 4x + 6) \\ & 2(x^2 - 4x + 6) \div x \\ & 2(x^2 - 4x + 6) \div x \\ & 3x + 2x - 6x \\ & (5x^2 - 2x) \div x \end{aligned}$$

$$\begin{aligned} & m^2 - 5m \\ & x^2 \\ & 2p(p - 5) \end{aligned}$$

$$\begin{aligned} & -2p^2 - 10p \\ & (3x + 4) - (6 - 2x) \\ & m(m + 5) \\ & 4l + 4m \\ & -2p(-p + 5) \end{aligned}$$

$$\begin{aligned} & 2x^2 - 8x + 12 \\ & 4x + 8 \\ & 5x^2 \div x \end{aligned}$$

$$\begin{aligned} & 2p^2 + 10p \\ & -15x^2 \\ & 7x + 7 \\ & -2y(4y - 3) \end{aligned}$$

$$\begin{aligned} & 4x^2 - x \\ & -2x - 2 \\ & 4p^2 \\ & -8y^2 + 6y \\ & 2 + 5x \end{aligned}$$

$$\begin{aligned} & 5x - 2 \\ & 2x - 7 \\ & 2p(p + 5) \\ & m(m - 5) \\ & m^2(5 + 1) \end{aligned}$$

$$\begin{aligned} & 5x \\ & -2x + 2 \\ & 2x \\ & (6x^2 - 3x) \div (3x) \\ & 8x^2 - 2x^2 \end{aligned}$$

$$\begin{aligned} & (-2x)(5y) \\ & 4(l + w) \\ & 2(l^2 + 6l + 4) \end{aligned}$$

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**Patterns and Relations**  
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## Polynomial Equivalency (cont'd)

### Blank Hexagon Cards

