

# Ma9 LG 9A (Formative Assessment)

Marking Teacher: \_\_\_\_\_

Name: \_\_\_\_\_

Student #: \_\_\_\_\_

Use algebra tiles to model each polynomial.

1. a)  $2x^2 - 4x$

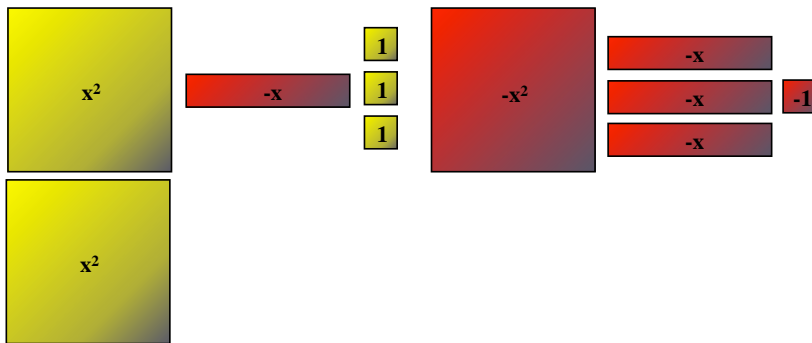
b)  $-x^2 + 2x - 3$

Classify each polynomial by degree and by number of terms

2. a)  $3b + 2$

b)  $4x^2 - 2x + 3$

3. Write the addition sentence for the following and determine the sum.



Simplify by combining like terms

4. a)  $3x + 5 - 2x + 3 + x - 7$

b)  $5y^2 - 3y - 2y - 12y^2$

**Add the following polynomials.**

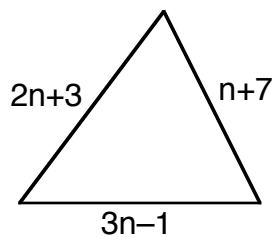
5. a)  $(2x^2 - 3x + 5) + (5x^2 - 2x - 3)$       b)  $(4y^2 - 3y + 1) + (-2 + 2y - 7y^2)$

**Subtract the following polynomials.**

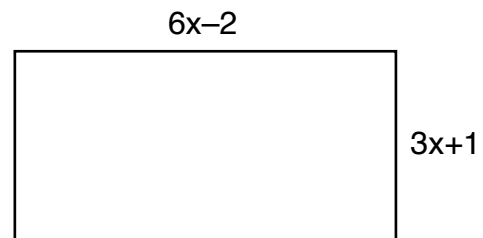
6. a)  $(3x^2 - 5x - 7) - (2x^2 - 6x + 3)$       b)  $(2y^2 + 7y - 3) - (-5 - 2y + 5y^2)$

**Write a polynomial for the perimeter of each shape, then simplify each polynomial.**

7. a)



b)



8. The sum of two polynomials is  $3x^2 - 2x + 5$ . One polynomial is  $2x^2 + 3x - 2$ , what is the other?

# Ma9 LG 9B (Formative Assessment)

Marking Teacher: \_\_\_\_\_

Name: \_\_\_\_\_

Student #: \_\_\_\_\_

Use algebra tiles to model each polynomial.

1. a)  $x^2 + 5x$

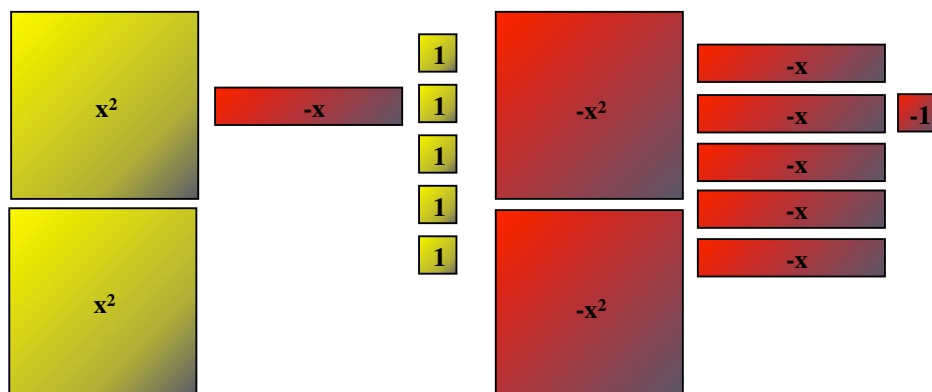
b)  $-2x^2 + 3x - 1$

Classify each polynomial by degree and by number of terms

2. a)  $3b^2$

b)  $-2x + 4x^2 + 7$

3. Write the addition sentence for the following and determine the sum.



Simplify by combining like terms

4. a)  $-2x - 1 + 3x + 4 + 2x - 4$

b)  $-1y^2 - 4y + 2y - 2y^2$

**Add the following polynomials.**

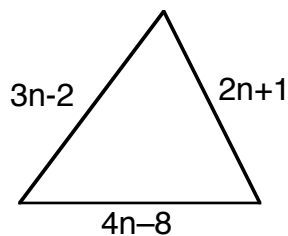
5. a)  $(x^2 - 4x + 1) + (-2x^2 + x - 2)$       b)  $(-2y^2 + 2y + 3) + (-3 + 5y - 2y^2)$

**Subtract the following polynomials.**

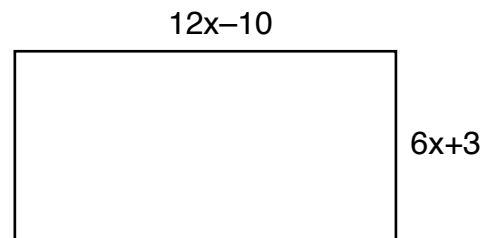
6. a)  $(4x^2 + 2x - 6) - (-3x^2 - 2x + 5)$       b)  $(-y^2 - 3y + 1) - (4 - 6y - 2y^2)$

**Write a polynomial for the perimeter of each shape, then simplify each polynomial.**

7. a)



b)



8. The difference between two polynomials is  $3x^2 - 2x + 5$ . The first polynomial is  $2x^2 + 3x - 2$ , what is the other?