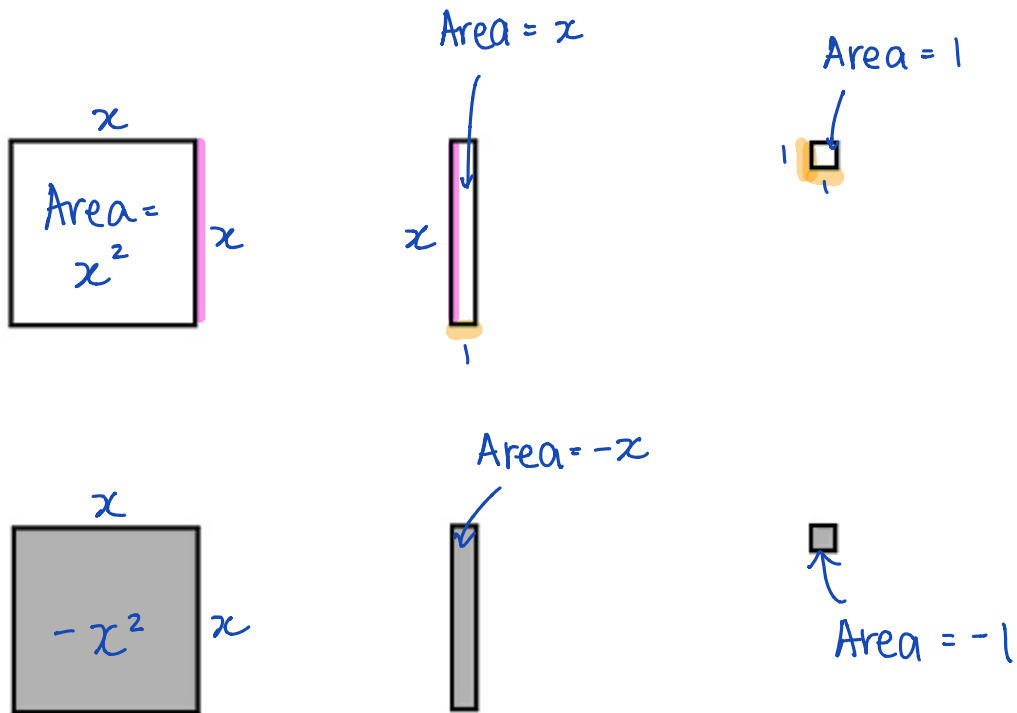


Name: _____

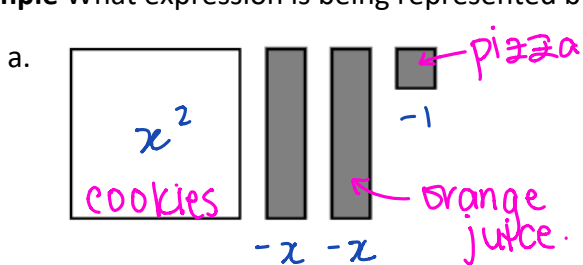
Date: _____

Learning Goal 5.1	I can identify characteristics of polynomials and simplify polynomials by collecting like terms.
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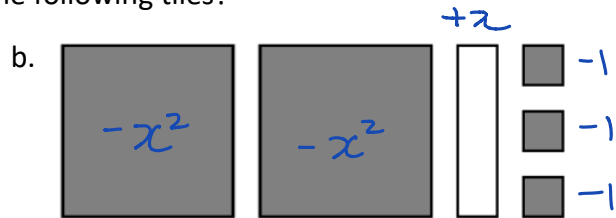
Algebra Tiles : tiles that represent an area



Example What expression is being represented by the following tiles?



$$\begin{aligned}
 & \underline{x^2 - x - x - 1} \\
 & = x^2 - 2x - 1
 \end{aligned}$$



$$\begin{aligned}
 & \underline{-x^2 - x^2 + x - 1 - 1 - 1} \\
 & = -2x^2 + x - 3
 \end{aligned}$$

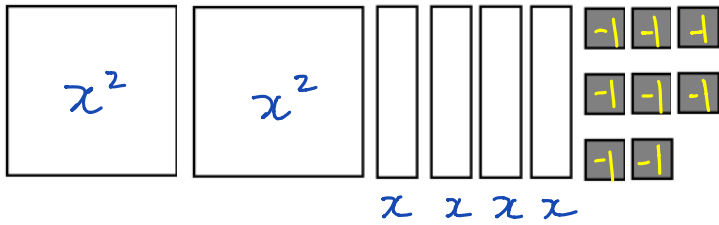
Assignment

p. 213 #1-9, 12-16, 20

Quiz Next Day!

quadratic linear constant

c.

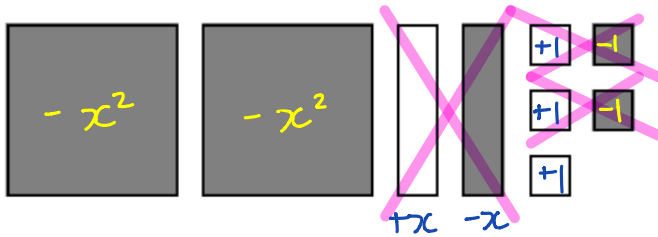


$$x^2 + x^2 + x + x + x + x - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1$$

$$= 2x^2 + 4x - 8$$

Example What expression is being represented by the following tiles? Can it be simplified?

a.



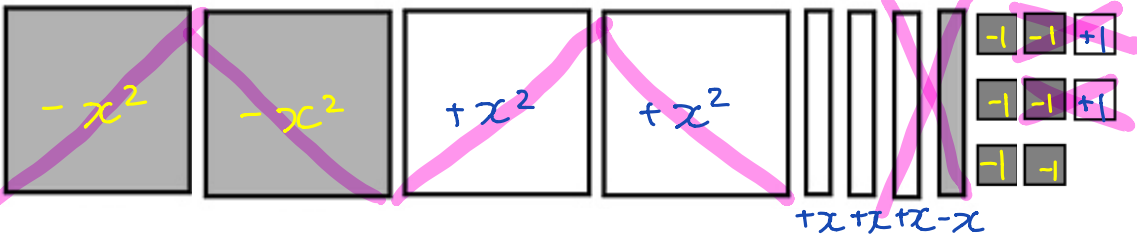
$$-x^2 - x^2 + x - x + 1 + 1 + 1 - 1 - 1$$

$$= -2x^2 + 0x + 1$$

↑ algebra

Tiles: $-2x^2 + 1$
term

b.



$$-x^2 - x^2 + x^2 + x^2 + x + x + x - x - 1 - 1 - 1 - 1 + 1 + 1 = 2x(-4)$$

term ← term

Definitions whole #: 0, 1, 2, 3, ...	
Polynomial	an expression consisting of variables and coefficients where exponents on all variables belong to the whole number set.
Monomial	a polynomial with just one term.
Binomial	a polynomial with 2 terms.
Trinomial	a polynomial with 3 terms.
Term	a number multiplying a variable(s) with a whole # exp.
Constant	a term without a variable
Coefficient	the number that multiplies the variable ex. $2x$
Degree	the largest exponent in the polynomial on a variable.