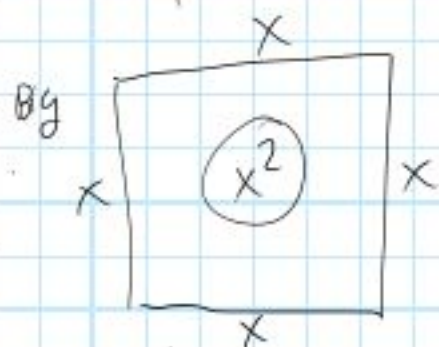




$$\text{Area} = l \cdot w = 1 \cdot 1 = 1$$



$$\text{Area} = l \cdot w = x \cdot x = x^2$$



$$\text{Area} = l \cdot w = 1 \cdot x = x$$


(+) Other Color (color in) (-) Red (Empty)

$$1 + 1 + 1 = 3$$

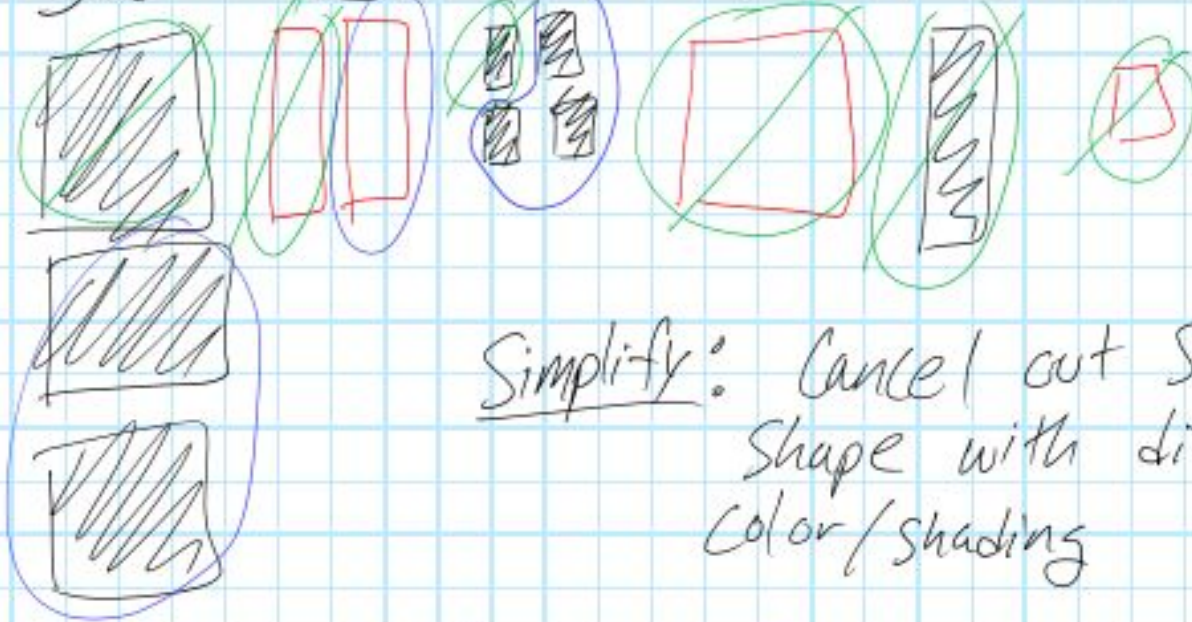
$$x + x + x = 3x$$

$$x^2 + x^2 + x^2 = 3x^2$$

Arrange @ Draw

(+) Other 

$$3x^2 - 2x + 4 - x^2 + x - 1$$

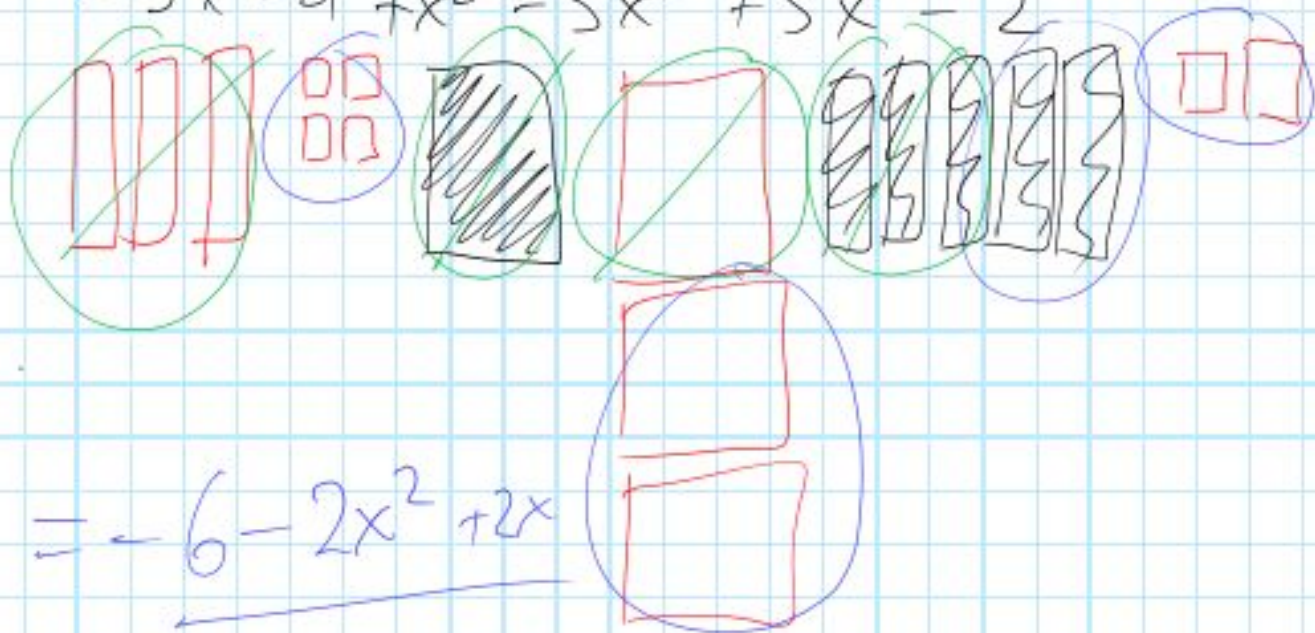


Simplify: Cancel out Same
Shape with different
Color/Shading

$$= 2x^2 - x + 3$$

Draw @ Arrange then Simplify, and write
answer

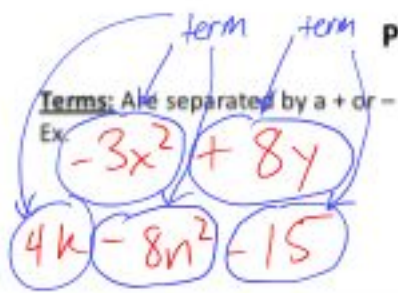
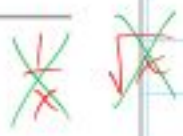
$$-3x - 4 + x^2 - 3x^2 + 5x - 2$$



$$= -6 - 2x^2 + 2x$$

Name: _____

Polynomial Vocabulary



Polynomial: expression with one or more terms

Ex. $3x - 4$ ← Polynomial
 $8y^2 - 15x + 87z^5$
 5

Handwritten notes: $0.8x$, $-2y$, $+\frac{1}{2}x$, $5y$

Variable: An unknown quantity, usually written as a letter $x, y, z, a, b, c, \star, \alpha, \Omega, \delta$

Coefficient: the number multiplying a variable $-5x$ $(\frac{2}{3})y^2$

Constant: A number without a variable $3x(-4)$

Like terms: terms with the same variables and same exponents $3x^2$ and $-2x^2$ ✓ $5y$ and $6y^2$ ✗
 $18x^2y^5$ and $2x^2y^5$ ✓

	$5y + 1$	$-3x - 2x^2 + x^2$	$-7t + 3k^4 - k^2 + 5t - 2$
How many terms are there in this polynomial?	2	3	5
What variables are in this polynomial?	y	x	t, k
What are the coefficients?	5	-3, -2, 1	-7, 3, -1, 5
What is the constant?	1	None @ 0	-2
List the like terms in each polynomial	None	$-2x^2$ and x^2	$-7t$ and $5t$
Simplify the polynomial by combining like terms	$5y + 1$	$-3x - x^2$	$-2t + 3k^4 - k^2 - 2$

Write down polynomials with 2 terms when simplified using the variable 'y' *Just*

$$-3y + 2$$

$$5y^2 - y$$

Write down polynomials with 3 terms when simplified using the variable 'b'. Make sure they have a coefficient of -3 and a constant of -4

$$-3b - 4 + b^3$$

Write down 2 like terms for 3b
Add them together and simplify

$$4b \text{ and } -8b$$

Write down 2 like terms for $-7x^2$
Add them together and simplify

$$3x^2 \text{ and } -15x^2$$

HW: Section 5.1 #6(all), 7(a-g), 8 (a-h), 9(all)

Remember: We can only combine when the tiles have the same shape (like terms)

