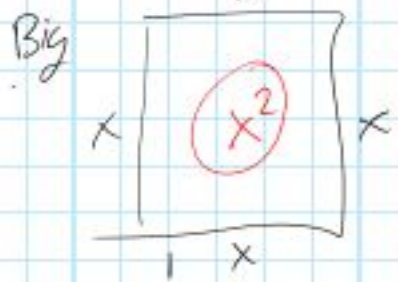


$$\text{Area} = l \cdot w = 1 \cdot 1 = 1$$



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



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

(+) Other (colored in) (-) Red (Empty)

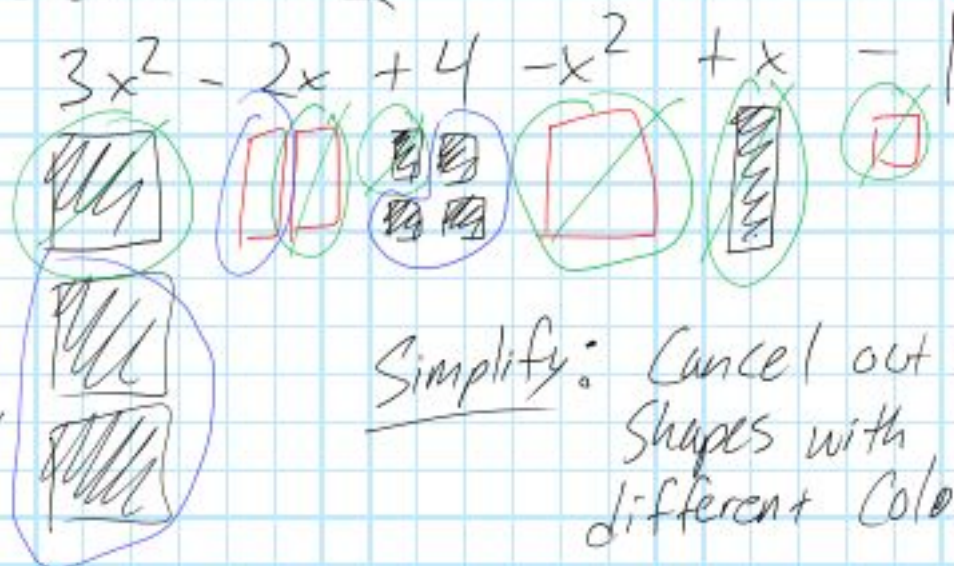
$$1 + 1 + 1 = 3$$

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

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

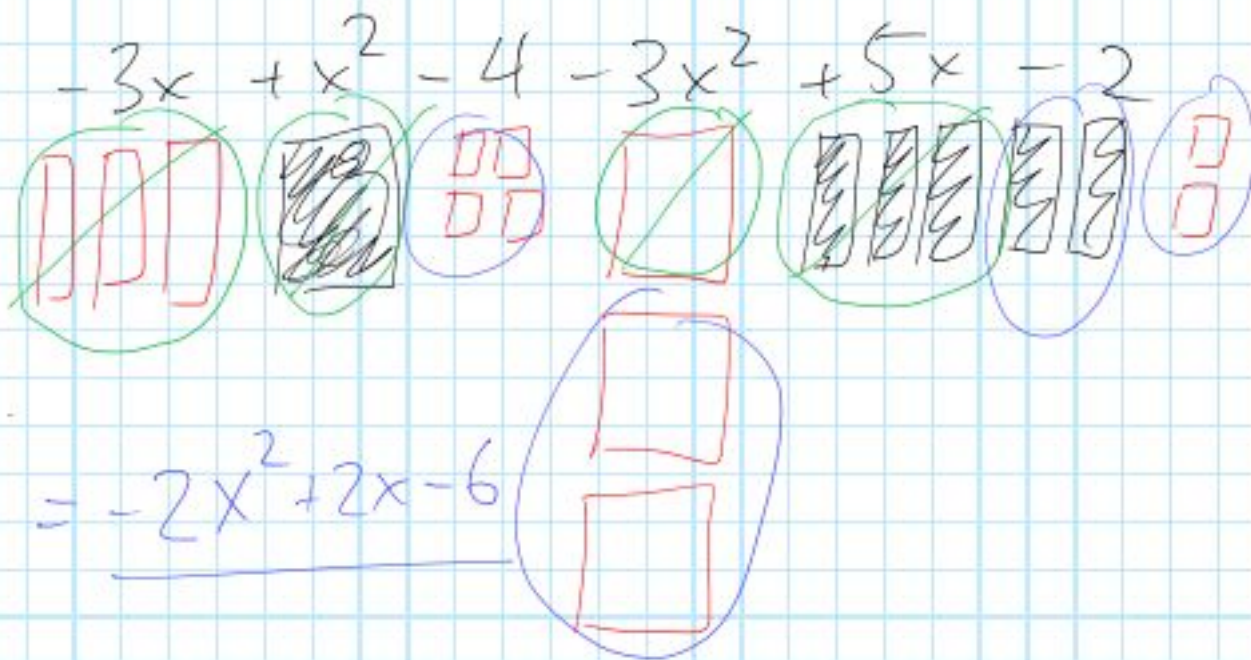
Draw @ Arrange

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



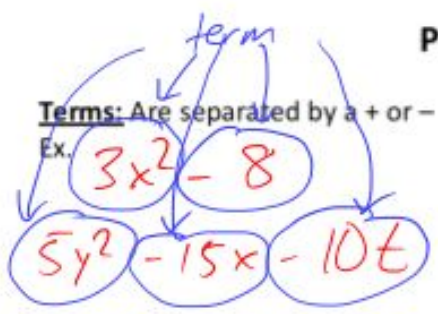
$= 2x^2 - x + 3$

Draw @ Arrange then Simplify and write answer



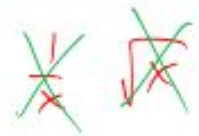
Name: _____

Polynomial Vocabulary



Polynomial: expression with one or more terms

Ex. $14xy - 8$ ← Polynomial → $\frac{3}{4}x - \frac{1}{2}$
 $-8t - 15n^2 - 12x$ ←
 $4x$ $\frac{3x-2}{2} = \frac{3}{2}x - 1$



Variable: An unknown quantity, usually written as a letter

$x, y, z, a, b, c, \phi, \omega, \alpha$

Coefficient: the number multiplying a variables $5x$ $-15x^2y$

Constant: A number without a variable $3x - 8$

Like terms: terms with the same variables and same exponents

$4x$ and $-3x$ ✓ $8y^2$ and $2y^2$ ✓
 $-15x^2y^5$ and $-3x^2y^5$ ✓

	$5y + 1$	$-3x - 2x^2 + x^2$	$-7t + 3k^4 - k^2 + 5t - 2$
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	x^2 and $-2x^2$	$-7t$ 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'

$$2y^2 - 2y$$

$$-15y^3 + (-6y)$$

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

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

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

$$2b \text{ and } -4b$$

$$= -2b$$

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

$$-7x^2 \text{ and } 6x^2$$

$$= -1x^2 = -x^2$$

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)

