

Quiz on **review** and
remaining sections of
Chapter 5 on Wednesday,
Januray 10, 2018

January 8 , 2018

Warm-Up

1. Polynomial	Classify	Coefficient[s]	Degree	Constant
	Monomial, Binomial or Trinomial?			
A. $4x - 3$	Binomial	4	1	-3
B. $-3x^2 + 4x + 7$	trinomial	-3, 4	2	7
C. $3x$	monomial	3	1	none
D. -4	monomial	none	none	-4

in front of variable
↙

2. Use algebra tiles to show how you would

simplify the following...draw algebra tiles for each part of the question and the final answer!

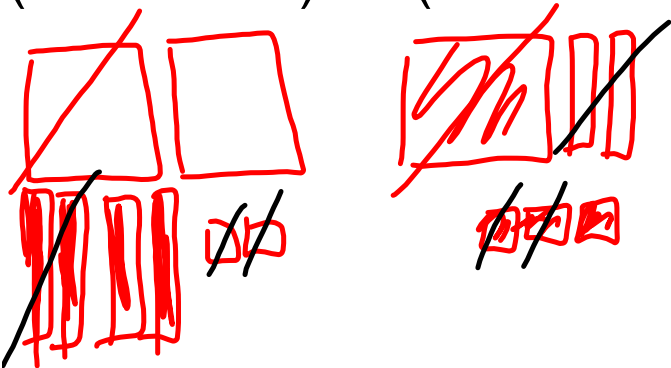
Algebra Tiles

Grouping like

Terms

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

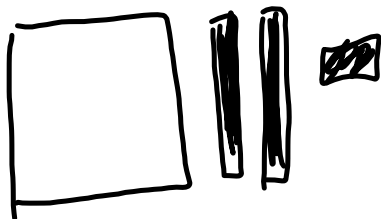
$$(2x^2 - 4x + 2) + (-x^2 + 2x - 3)$$



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

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

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



Simplify [remember...question, group, simplify]

$$4x^2 - 3x + 2 - 4x - 6x^2 - 5$$

$$\textcircled{4}x^2 \textcircled{-} \textcircled{6}x^2 \textcircled{-} \textcircled{3}x \textcircled{-} \textcircled{4}x \textcircled{+} \textcircled{2} \textcircled{-} \textcircled{5}$$

$$-2x^2 - 7x - 3$$

Subtract the following...show your steps!

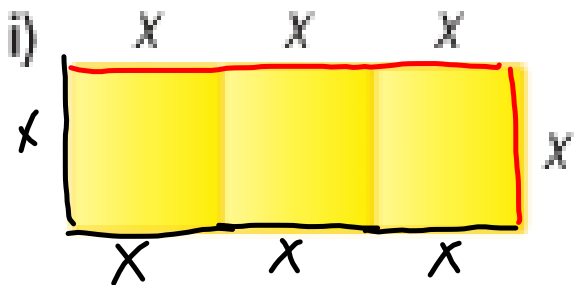
$$(2x^2 - 4x + 2) - (-x^2 + 2x - 3)$$

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

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

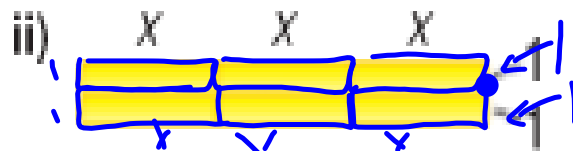
$$3x^2 - 6x + 5$$

Use Polynomials to represent perimeter



$$P = 8x$$

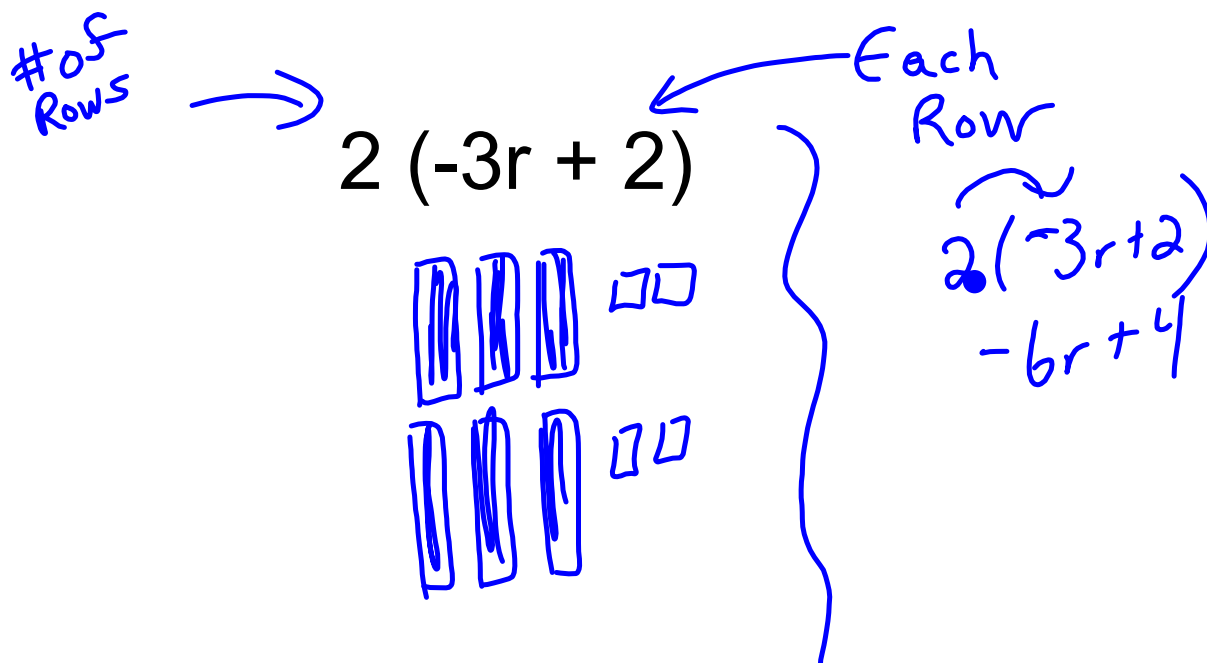
$$x = 2 \quad P = 8(2) \\ = 16$$



$$P = 6x + 4$$

$$x = 2 \quad P = 6(2) + 4 \\ 12 + 4 \\ = 16$$

Model the following:



$$A. \quad -2(3x^2 + 5x - 3)$$

$$-6x^2 - 10x + 6$$

$$C. \quad \frac{-4(x^2 + 8x - 16)}{4}$$

$$\left[\frac{-4x^2}{4} \right] \left[\frac{-32x}{4} \right] \left[\frac{64}{4} \right]$$

$$-x^2 - 8x + 16$$

$$B. \quad \underline{-12y^2 + 4y - 16}$$

$$\left[\frac{-12y^2}{-2} \right] \left[\frac{4y}{-2} \right] \left[\frac{-16}{-2} \right]$$

$$6y^2 - 2y + 8$$

$$(2c)(-3c)$$

$-6c^2$

Determine the product

$$8x(2x - 3y)$$
$$16x^2 - 24xy$$

Dividing a Monomial and a Binomial by a Monomial

A.
$$\frac{-50x^2}{2x}$$

$$-25x$$

$$\frac{-50(\cancel{x})(x)}{2\cancel{x}}$$

B.
$$\frac{-30k^2 - 12k}{-6k}$$

$$-30k^2 \quad -12k$$

$$\frac{-30k^2}{-6k} \quad \frac{-12k}{-6k}$$

$$5k + 2$$

C.
$$\frac{-16r^2 + 40r}{8r}$$

$$-2r + 5$$

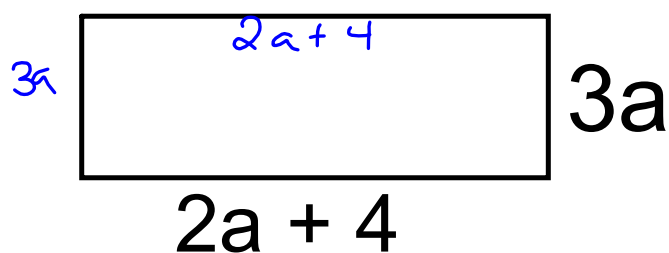
$$\frac{-16r^2 + 40r}{8r}$$

$$(-4x^2 + 9x - 3) - 2(8x^2 - 3x + 5) + 2x(3x - 4)$$

$$-4x^2 + 9x - 3 - 16x^2 + 6x - 10 + 6x^2 - 8x$$

$$\boxed{-4x^2} \boxed{-16x^2} \boxed{+6x^2} \boxed{+9x} \boxed{+6x} \boxed{-8x} \boxed{-3} \boxed{-10}$$

$$\boxed{-14x^2 + 7x - 13}$$



Write a simplified expression for perimeter....

Perimeter

$$P = 2a + 4 + 3a + 2a + 4 + 3a$$

$$P = 10a + 8$$

Find the perimeter if $a = 2$

$$P = 10a + 8$$

$$= 10(2) + 8$$

$$20 + 8 \quad P = 28$$

Page 313 9, 10 [a,c], 11 [a,c,e],
12 all

Page 521 answers

Page 235 #13 [b,c]

Page 247 #9 a,b