

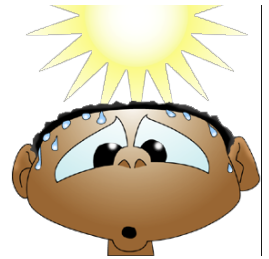
Trinomial

Warm Up...

Trinomials



$$(5x^2yz + 6x^2y - 6) + (6x^2y - 8x^2yz + 9)$$



① Get rid of Brackets

$$\cancel{5x^2yz} + \cancel{6x^2y} - 6 + \cancel{6x^2y} - \cancel{8x^2yz} + 9$$

② Group my like terms — same variable  
same degree

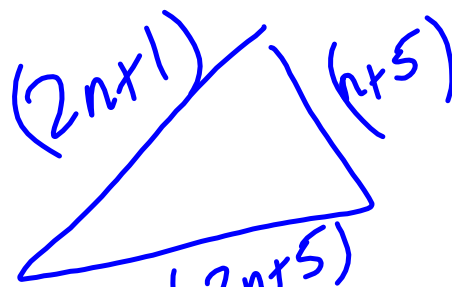
Add

$$\textcircled{3} \quad 5x^2yz - 8x^2yz + 6x^2y + 6x^2y - 6 + 9$$

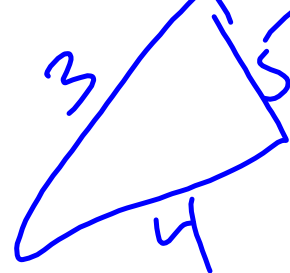
$$\boxed{-3x^2yz + 12x^2y + 3}$$

Review of work from yesterday  $\rightarrow$  perimeter

10



$$P = 3 + 5 + 4$$



3 Binomials

① In Brackets

$$(2n+1) + (n+5) + (2n+5)$$

② Remove Brackets

$$2n+1+n+5+2n+5$$

③ Group "like terms"

$$\frac{2n+1+n+2n+1+5+5}{P = 5n+11}$$





Things you already know...

$$\begin{array}{r} 18 - 5 \\ = 13 \\ \vdots \end{array}$$

$$15x - 31x$$

$$-16x$$

Like terms  
we can only  
add and  
subtract like  
terms.



$$\begin{array}{r} - \\ - \\ + \\ = \\ + \end{array}$$

$$11 - (-5)$$

$$11 + 5$$

$$-18 - (-11)$$

$$-18 + 11$$

$$-7$$



$$(5x - 11) - (3x - 6)$$

Assume (+)

$$(5x - 11) - (+3x) - (-6)$$

$$5x - 11 - 3x + 6$$

Remove the brackets. Add the Opposite!

Collect like terms.

③ Group

$$5x - 3x - 11 + 6$$

④

$$2x - 5$$

- Adding Brackets
- ① Brackets
  - ② Take it out
  - ③ Group
  - ④ Simplify

Changed the signs in the 2nd bracket.

Try This!  $(6x^2 - 4x + 2) - (-8x^2 + 9x - 2)$

$$6x^2 - 4x + 2 - (-8x^2) - (-9x) - (-2)$$

$$6x^2 - 4x + 2 + 8x^2 + 9x - 2$$

$$(6x^2 - 4x + 2) - (-8x^2 - 9x + 2)$$

$$6x^2 - 4x + 2 + 8x^2 + 9x - 2$$

$$14x^2 + 5x$$

Subtracting  
each  
term.



Example 3.

The height of a ball kicked on Earth can be modelled by:  $18 + 35t - 4.9t^2$

On Mars the height is modelled by:  $52 + 26t - 1.3t^2$

Find a formula for the difference in the height of the ball on Mars as compared to Earth.

Mars - Earth

$(52 + 26t - 1.3t^2) - (18 + 35t - 4.9t^2)$

$52 + 26t - 1.3t^2 + (-18) + (-35t) + (+4.9t^2)$

~~$52 + 26t - 1.3t^2 - 18 - 35t + 4.9t^2$~~

$- 1.3t^2 + 4.9t^2 + 26t - 35t + 52 - 18$

$3.6t^2 - 9t + 34$

Subtracting



Pg 234

Note: These questions were only assigned to the period 2 class.

~~4~~

5 a-e

6 a and b

7 c and d

8 a and b

