



Section 5.3 Adding Polynomials

Day 2

1) Add the following: (Show your work)

$$(7b^2 - 15b + 11) + (-2b^2 - 5b + 6)$$

$$7b^2 - 15b + 11 - 2b^2 - 5b + 6$$

$$7b^2 - 2b^2 - 15b - 5b + 11 + 6$$

$$5b^2 - 20b + 17$$

Name _____

Quiz

Nov 26

Simplify

1. $(p+1) + (5p - 6)$

$$\begin{aligned} p+1+5p-6 \\ p+5p+1-6 \\ 6p-5 \end{aligned}$$

2. $(3k^2 - 3k + 2) + (-3k^2 - 3k + 2)$

$$\begin{aligned} 3k^2 - 3k + 2 - 3k^2 - 3k + 2 \\ 3k^2 - 3k^2 - 3k - 3k + 2 + 2 \\ -6k + 4 \end{aligned}$$

Page 229

$$9. a) (4m^2 + 4m - 5) + (2m^2 - 2m + 1)$$

$$4m^2 + 4m - 5 + 2m^2 - 2m + 1$$

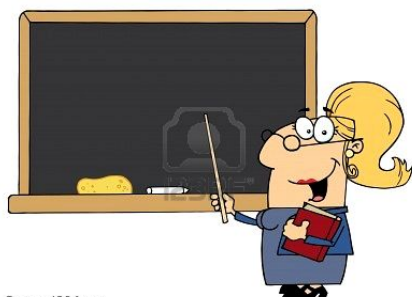
$$4m^2 + 2m^2 + 4m - 2m - 5 + 1$$

$$6m^2 + 2m - 4$$



Check your homework
from the back of the textbook

Are there any questions that you
would like me to complete on the
board?

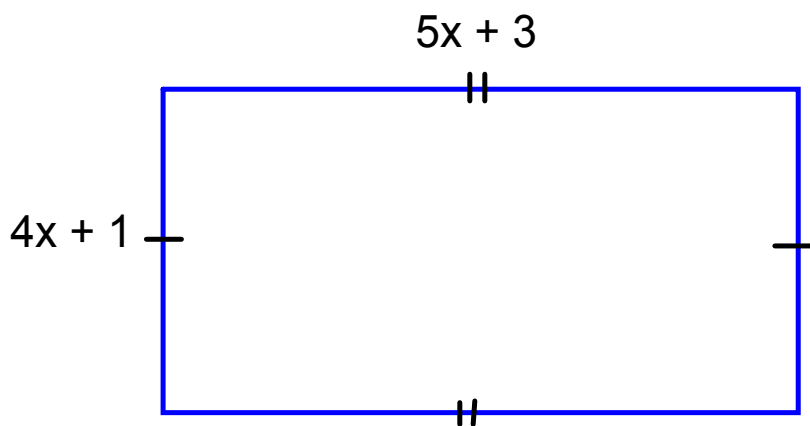


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Determining a Polynomial for the perimeter of a rectangle

- a) Write a polynomial for the perimeter of this rectangle.
Simplify the polynomial.



Perimeter = the sum of all sides

$$= (4x + 1) + (4x + 1) + (5x + 3) + (5x + 3)$$

$$= 4x + 1 + 4x + 1 + 5x + 3 + 5x + 3$$

$$= 4x + 4x + 5x + 5x + 1 + 1 + 3 + 3$$

$$= 18x + 8$$

The perimeter is $18x + 8$.

Adding Polynomials in Two Variables

$$\text{Add: } (3s^2 + s - 4c - 5cs + 2s^2) + (-5c^2 + 3cs + 6c - 4s + 7c^2)$$

Remove Brackets.

$$= 3s^2 + s - 4c - 5cs + 2s^2 - 5c^2 + 3cs + 6c - 4s + 7c^2$$

Group like terms.

$$= 3s^2 + 2s^2 + s - 4s - 4c + 6c - 5cs + 3cs - 5c^2 + 7c^2$$

Combine like terms.

$$= 5s^2 - 3s + 2c - 2cs + 2c^2$$

$$2c^2 + 2c - 2cs - 3s + 5s^2$$

Notice here they put all the "s" terms together and all the "c" terms together. The "cs" terms go in the middle.

If you put all the "squared" terms together at the first I would not mark that wrong.

Practice Questions

p.229 - 230

10(a),12,14

15(a,c,e)

16, 17

