

Unit 3

Expressions & Equations

Homework

COMBINING LIKE TERMS

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Score ___ / ___

Name: _____

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Circle One
Due: M T W Th F

Expressions & Equations

(Combining Like Terms)

Directions: Answer problems #1-5. Show all of your work!

1

In your own words, what does it mean to combine like terms?

2

Combine the following:

$$5x - 10 - 6x + 7$$

5

Combine the following:

$$-6x^2y^2 - x^2y^2 + x^2y^3 - y^3 + 9x^2y^3$$

Determine if the following terms are "like terms". Explain your reasoning.

$$5x^2y^3 \text{ and } -2x^2y^2$$

Combine the following:

$$4x^2 - 10y + 5y - 3x^2$$

3

4

Expressions & Equations

(Combining Like Terms)

Directions: Answer problems #6-8. Show all of your work!

6 Find the mistake! Circle the mistake below and explain why it is wrong:

Combine the following:

$$-12x^2y - 10y^2 + 4x^2 + 5xy - 10x^2$$

$$-7x^2y - 10y^2 - 6x^2$$

Explanation:

7 Be Creative!

Create your own word problem and solve below:

8 Reflection: From this homework assignment, I ...

Circle One
Due: M T W Th F

Expressions & Equations

(Combining Like Terms)

Directions: Answer problems #1-5. Show all of your work!

1

In your own words, what does it mean to combine like terms?

Combining like terms is a process that simplifies an expression by adding or subtracting the coefficients of terms that have the exact same variables and exponents.

2

Combine the following:

$$5x - 10 - 6x + 7$$

$$-x - 3$$

5

Combine the following:

$$-6x^2y^2 - x^2y^2 + x^2y^3 - y^3 + 9x^2y^3$$

$$10x^2y^3 - 7x^2y^2 - y^3$$

Determine if the following terms are "like terms". Explain your reasoning.

$$5x^2y^3 \text{ and } -2x^2y^2$$

No, these are not like terms. The x variables are the same with an exponent of 2, but the y variables are not the same because one of them has an exponent of 2 while the other one has a 3.

3

Combine the following:

$$4x^2 - 10y + 5y - 3x^2$$

$$x^2 - 5y$$

4

Expressions & Equations

(Combining Like Terms)

Directions: Answer problems #6-8. Show all of your work!

6 Find the mistake! Circle the mistake below and explain why it is wrong:

Combine the following:

$$-12x^2y - 10y^2 + 4x^2 + 5xy - 10x^2$$

$$\textcircled{-7x^2y} - 10y^2 - 6x^2$$

Explanation:

You cannot combine $-12x^2y$ and $5xy$. Even though they have the same variables, they do not have the same exponents.

7 Be Creative!

Create your own word problem and solve below:

In order to receive credit, students need to create their own word problem and solve it. They will not receive credit if they do not provide a word problem. Also, it needs to be a word problem involving combining like terms.

8 Reflection: From this homework assignment, I ...

Students need to write a good reflection about 2-3 sentences long. They cannot write "I learned how to do math" or anything similar. The reflection needs to show serious thought.

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