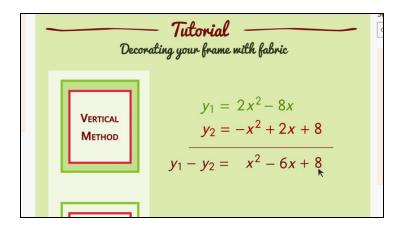
Printable Worksheets from sofatutor.com

Subtracting Polynomials



1	Analyze each statement about subtracting polynomials.
2	Explain how to calculate the amount of material needed for the frame.
3	Calculate the difference with the vertical function addition method.
4	Examine the variables in the expressions and determine whether or not you can subtract them from the given expressions.
5	Determine the equation for the border of the flower patch.
6	Solve the following subtraction problems.
+	with lots of tips, answer keys, and detailed answer explanations for all of the problems.



The complete package, **including all problems**, **hints**, **answers**, **and detailed answer explanations** is available for all sofatutor.com subscribers.



Analyze each statement about subtracting polynomials.

Choose the correct statements.

Write polynomials in standard form.	
You can combine any terms.	
Combinations of variables, such as x or y , are considered to be one term.	
For example, $3xy^2-x=2y^2$	
You can't simplify an expression like $3xy^2-x$ any further.	9

Hints for solving these problems



Analyze each statement about subtracting polynomials.

Hint #1

$$-8 + 3x^2 + 2x = 3x^2 + 2x - 8$$

Here, you can see an example of how to write a polynomial in standard form.

The different terms are arranged in decreasing degree, from left to right.

Hint #2

You can imagine the combination of terms as the following:

- ullet Two apples plus three apples are 2+3=5 apples.
- You can't add two apples to three pears.

Hint #3

$$(2x^{2} - 8x) - (x^{2} - 2x - 8)$$

$$= 2x^{2} - 8x - x^{2} + 2x - 8$$

$$= (2x^{2} - x^{2}) + (-8x + 2x) + 8$$

$$= x^{2} - 6x + 8$$

Above is an example of the horizontal method for subtracting two polynomials.



Answers and detailed answer explanations for these problems



Analyze each statement about subtracting polynomials.

Answer key: A, C, E

What do you have to keep in mind when subtracting polynomials?

- Write each polynomial in standard form : Arrange the terms according to degree, decreasing from left to right.
- You can only combine like-terms. There is no way to combine the terms 2x and $-5y^2$, for instance.
- Composed terms: When subtracting composed terms, such as $3xy^2$, the variables should be identical. For example, the variable pair for $3xy^2$ is xy^2 . We cannot subtract a portion of the variable pair. So $xy^2 x \neq y^2$.

