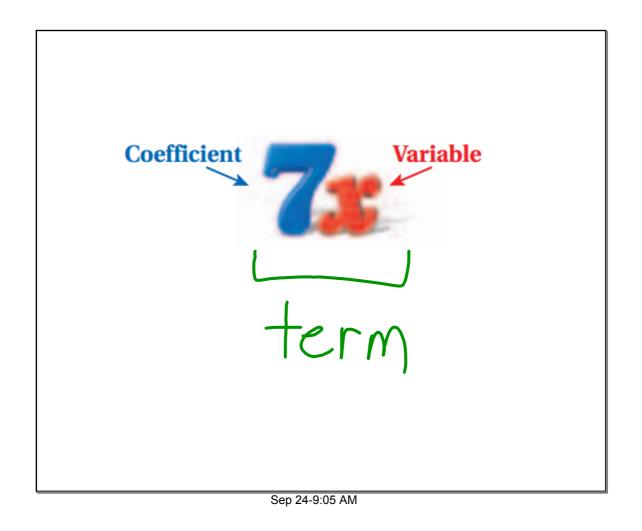
1.9 Simplifying Algebraic Expressions

p.42 10-9-17

Sep 24-9:04 AM



In the expression 7x + 9y + 15, 7x, 9y, and 15 are *terms*. A **term** can be a number, a variable, or a product of numbers and variables. Terms in an expression are separated by plus or minus signs.

Sep 24-9:06 AM

In the term 7*x*, 7 is called the *coefficient*. A **coefficient** is a number that is multiplied by a variable in an algebraic expression.

Like Terms	3x and 2x	w and $\frac{w}{7}$	5 and 1.8
Unlike Terms	5x ² and 2x The exponents are different.	6a and 6b The variables are different.	3.2 and n Only one term contains a variable.

Sep 24-9:10 AM

Combining like terms is like grouping similar objects.

To combine like terms that have variables, add or subtract the coefficients.

Simplify. 6t - 4t

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like terms 84

$$3a^{2} + 5b + 11b^{2} - 4b + 2a^{2} - 6$$

$$3a^{2} + 2a^{2} = 5a^{2}$$

$$5b - 4b = 6$$

$$5a^{2} + b + 11b^{2} - 6$$

Sep 25-8:19 AM

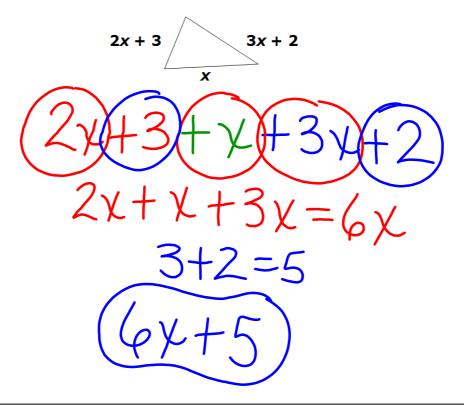
C.
$$4x^{2} + 4y + 3x^{2} - 4y + 2x^{2} + 5$$

$$4\chi^{2} + 3\chi^{2} + 2\chi^{2} = 9\chi^{2}$$

$$4y - 4y = 0$$

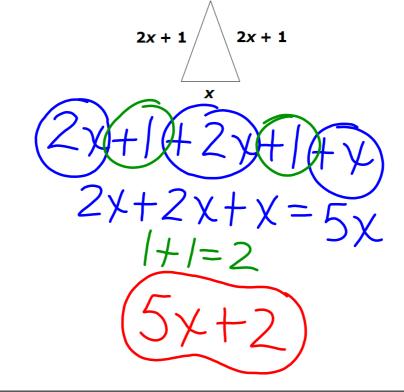
$$9\chi^{2} + 5$$
Sen 25.8:20 AM

Write an expression for the perimeter of the triangle. Then simplify the expression.



Sep 25-8:20 AM

Write an expression for the perimeter of the triangle. Then simplify the expression.



Sep 25-8:21 AM