## SOLVING EQUATIONS W/LIKE TERMS

## Do you remember how to combine like terms?

2. 
$$b + 2b - 5b - 17 =$$

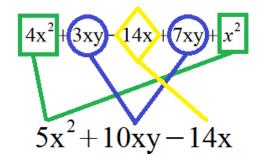
3. 
$$-2c + 8 - 1 - 7c =$$

4. 
$$7a^2 - b - c - a^2 - b + c =$$

5. 
$$4xy - 4xz + 7xy - 11yz =$$
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## Example:

$$4x^2 + 3xy - 14x + 7xy + x^2$$



**EXAMPLES:** Solve each equation showing all steps.

1) 
$$5x - 3 + 2x = -31$$
  $x = _____$ 

2) 
$$-7 + 6w + 22 = -45$$
  $w =$ 

4) 
$$-0.3 = 5f + 12 - 2.4f + \frac{3}{2}f$$
  $f =$ 

## **EXAMPLES:** Write an equation for each situation and solve.

5) The perimeter of a triangle is 87 cm. If the three sides of the triangle are $x + 1$ cm, $2x - 1$ cm, and $4x + 3$ cm, what is the length of each side?	
	Equation:
	more than half of the width. If the perimeter is 60 cm, find the length.
E	quation:
7) Jacob sold 8 more calendars to raise money for athletics than Colton. Together they sold 42 calendars. How many athletic calendars did Jacob sell?	
E	Equation:
8) Martha takes her niece and nephew to a concert. She buys T-shirts and bumper stickers for them. Martha's niece wants 1 shirt and 4 bumper stickers, and her nephew wants 2 shirts but no bumper stickers. If Martha's total is \$67, what is the cost of one shirt?	
E	Equation:  T-Shirts Stickers \$1