Algebra 4-1: Subtraction of Real Numbers

Warm-Up

- 1. How can we write 4 12 as an addition problem?
- 2. Give an example of the associative property of addition?

Subtracting Real Numbers

We can change a subtraction expression into an ______ expression by

adding the opposite

Examples

1. Can we use the associative property with subtraction? Explain.

$$\frac{(3-2)-1=3-(2-1)}{1-1=3-1}$$

$$0 \neq 2$$

2. Change -6 - (-y) into an addition problem.

3. Simplify -4x + 6y - 8 - (-3x) - 7y.

$$\frac{-4x+6y-8+3x-7y}{-x-y-8} = -1x+-1y-80r$$

4. The coldest temperatures recorded in the world have been in Antarctica. Suppose a temperature of -50 C is recorded there. If then temperature then falls 30, what is the new temperature?