

## Adding & Subtracting Integers

Don't forget how to add integers now that we know how to subtract!

### Rules for adding integers:

If the signs are the same: Add, keep the sign

$$2 + 5 = 7 \quad -1 + -3 = -4$$

If the signs are different: Subtract, use the sign of larger ab. value

$$-3 + 6 = 3 \quad -8 + 2 = -6 \quad 5 + -6 = -1 \quad 7 + -2 = 5$$

### Rule for subtracting integers:

Change to Adding the opposite of the next #. | | |  
absolute value

### Practice

Solve.

1.  $-6 + (+2) = -4$

2.  $5 + -3 = 2$

3.  $3 + -5 = -2$

4.  $-2 + -3 = -5$

5.  $5 + (+1) = 6$

6.  $-1 + 1 = 0$

$-228 + 228$

7.  $3 + -10 = -7$

8.  $-20 + 21 = 1$

9.  $-6 + 4 = -2$

10.  $4 + (+3) = 7$

11.  $-9 + (+6) = -3$

12.  $5 + 12 = 17$

13.  $-4 + 9 = 5$

$-9 + 6 = -3$

14.  $-2 + 10 + (-4) = 4$

15.  $10 + (-8) + 15 + (-8) = 9$

16.  $-2 + 6 + (-1) + (+3) = 6$

Evaluate if  $a = 2, b = -6$  and  $c = 10$

17.  $a - b + c$

$$2 + +6 + 10 = 18$$

18.  $c - b - a$

$$10 + +6 + 2 = 18$$

19.  $a - b - 2c$

$$2 - -6 - 2 \cdot 10 = -12$$

Homework is continued on the next page.

