Adding and Subtracting Integers   Name_____Pd____
Reading Algebra: The Symbols + and -

The symbols + and - are used to express the operations of addition and subtraction.

            4 + 5   four plus five
            3 - 6   three minus six

The same symbols are used in a different way. They can indicate whether an integer is greater or less than zero.

            +9   positive nine
            -2   negative two

It is somewhat more precise to read -2 as "negative two" or "the opposite of two" rather than "minus two." In the same way, the more precise way to read +9 is as "positive nine" rather than "plus nine."

Fill in each blank with the terms <u>opposite</u>, <u>plus</u>, <u>minus</u>, <u>positive</u>, and <u>negative</u> to complete each expression. Be as precise as you can.

1. 4 - (-3)   four minus _____ three

2. -8 - 7   negative eight _____ seven

3. -(-10)   the opposite of _____ ten

4. +4 + (-3)   _____ four _____ negative three

5. -(x - y)   the _____ of the quantity x _____ y

Write each expression and check your answer on a graphing calculator.

6. the sum of positive five and negative five_____ = 0____

7. the positive difference of three and negative two_____ = 5____

8. the opposite of the five plus three_____ =-8____

9. five more than negative ten_____ = -5____

10. four less than negative six_____ = -10___

11. the opposite of six less than negative two_____ = 8____

12. negative three minus the opposite of six_____ = 3____

13. positive twelve increased by negative twenty_____ = -8____

14. negative five decreased by negative seven_____ = 2____

15. the sum of the opposite of 1 and the opposite of -4_____ =3____

Find each sum or difference using a graphing calculator.
16. -94 + (-27) = _____   17. 14 - (-8) = _____

18. -47x - 28x = _____   19. -16 - (-38) = _____

20. 9 + (-3) + (-10) = _____