

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

Name _____ Pd _____

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 opposite, plus, minus, positive, and negative 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. $9 + (-3) + (-10) =$ _____