



Answer the following homework questions.

In Exercises 1-6, find the value of each expression.

1) $10-|-5-2|$
2) $-9-|-4-7|-8$
3) $\left|-4-6^{2}\right|$
4) $\left|-2^{2}-3^{2}\right|$
5) $5^{2}\left|-4^{2}+3\right|$
6) $-4\left|-3^{2}-(2-3)^{2}\right|$


|  | When you look at a number line, you may <br> realize that the opposite of any negative <br> number is always positive! <br> Most calculators have an opposite key on the <br> key pad. The calculator key should have a " $\pm$ " <br> symbol on it or it could have a " $(-)$ " symbol. In <br> either case, pressing this key will always give <br> you the opposite of what displayed on the <br> screen. cive it a try! |
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| later we will find that multiplying a |  |
| number by - is how we calculate the opposite |  |
| of a number. Actually, when you press the " $\pm$ " |  |
| key on the calculator, it simply multiplies |  |
| whatever is on the screen by -1. |  |

Answer the following homework questions.
7) What number is its own opposite?
8) What is the opposite of the absolute value of negative 2 ?
9) What is the opposite of negative 2?
10) What is the opposite of positive 2?
11) Why do all negative numbers have opposites that are positive?
12) How do you tell which calculator key is the opposite key? What does this key do to the number that is displayed on the screen?

In Exercises 13-16. find the opposite of the given quantity.
Note: You must first evaluate the absolute value before you find the opposite.
13) $(-7-3)$
15) $\left|-4^{2}-10\right|$
14) $\left(-4-1^{10}\right)$
16) $\left|-3^{2}-2^{2}\right|$

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