Name:

College Algebra: Quiz #1 (Solutions)

1. Find all solutions of the following equation.

$$|5x + 6| + 8 = 29$$

Solution: First we get the absolute value by itself on one side of the equation.

$$|5x + 6| = 21$$

Now we can split this equation into two: we have

$$5x + 6 = 21$$
 or $5x + 6 = -21$.

Solving these equations separately gives two solutions: x = 3 or -27/5.