

Name: _____

College Algebra: Quiz #2 (Solutions)

1. Find all solutions of the following equation.

$$x^2 - 13x + 42 = 0$$

Solution: We can solve this equation by factoring. We have

$$x^2 - 13x + 42 = (x - 7)(x - 6) = 0,$$

which is true if $x = 7$ or $x = 6$.

2. Find all solutions of the following equation.

$$2x^2 + x - 3 = 0$$

Solution: We can solve this equation by factoring. We have

$$2x^2 + x - 3 = (2x + 3)(x - 1) = 0,$$

which is true if $x = -3/2$ or $x = 1$. (We can also use the quadratic formula.)