

Name: _____

M\$3A Homework 42

<p>1. Solve by using the quadratic formula: $2x^2 - 3x - 7 = 0$</p>	<p>4. Solve by using the quadratic formula: $2c^2 - 7c + 1 = 0$</p>
<p>2. Solve by using the quadratic formula: $4 - 2x^2 = -7x$</p>	<p>5. Solve for all values of x that satisfy the equation $4x^3 - 8x = 5x^2$</p>
<p>3. Solve by using the quadratic formula: $3x^2 - 1 = -2x^2$</p>	<p>6. Solve using any method and state why you chose the method that you used. $19x^2 - 132x - 7 = 0$</p>

7. Mariah has 20 dimes and nickels, which together total \$1.40. How many of each does she have?

8. Four sections of a city salvaged 214 tons of tin cans. Section B collected three times as many as section A; section C collected 2 tons less than five times as many as section A; and section D collected 7 tons more than twice as many as section A. Find the number of tons collected in each section.

9. The current in the river was 8 miles per hour. The boat could go 60 miles upstream in one-half the time it took to go 280 miles downstream. How fast could the boat go in still water?