

Quiz 3

Thursday, February 14, 2008

Mathematics for Business

22M:013:SCA TTh 6:00 - 8:00 PM

Instructor: Matt Stoeckel

Name:

Show all work! Unless otherwise stated give the exact value.

1. For each, solve the equation and check your solution.

(a) $2x + 6 = 3(x - 2)$

(b) $5x = 6 - x$

2. For each, solve the equation and check your solution. If a solution is not possible explain why.

(a)

$$\frac{x^2 - 1}{x - 1} = 2$$

(b)

$$|3x + 2| = 7$$

3. For each, find all solutions of the equation. Check your solutions in the original equation.

(a) $\sqrt{x-10} - 4 = 0$

(b) $(x+1)^2 - 4 = 0$

4. Solve the equation by extracting square roots.

$$(2x-1)^2 = 18$$

5. Use the Quadratic Formula to solve the equation.

$$x^2 + 8x - 4 = 0$$