

Quiz 3

Tuesday, February 12, 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) $7 - x = 19$

(b) $3(x + 3) = 5(1 - x) - 1$

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

(a)

$$\frac{5x - 4}{5x + 4} = \frac{2}{3}$$

(b)

$$\frac{x}{x + 4} + \frac{4}{x + 4} + 2 = 0$$

3. For each, solve the quadratic equation by factoring.

(a) $9x^2 - 1 = 0$

(b) $(x + a)^2 - b^2 = 0$, a and b are real numbers.

4. Solve the equation by extracting square roots.

$$(x - 12)^2 = 16$$

5. Use the Quadratic Formula to solve the equation.

$$x^2 - x - 1 = 0$$