MATD 0370 – Elementary Algebra   Name_____
Written Homework 14 - Show all work to receive credit

Simplifying Radical Expressions (Section 8.2)

Simplify by factoring. (Factor out the perfect squares.)

1) $\sqrt{28}$ 2) $\sqrt{72}$

Solving Quadratic Equations (Sections 9.1, 9.3)

3) Solve using the principle of square roots. Give both an exact answer (include the square root) and a decimal approximation (use calculator to estimate the value of the square root).

$$(x-2)^2 = 30$$

4) Solve using the **quadratic formula**. Give the exact answer (include the square root). Make sure the equation is in the form $a^2 + bx + c$ before using the quadratic formula.

$$x^2 + 3x = 25$$