

MTH 65 – Winter Term 2009
Test 3 – no calculator portion
Given: March 11, 2009

Name _____

1. Find the solution to each equation using the zero principle. Don't forget to state your solutions!

a. $(2x - 7)(3x + 12) = 0$

b. $w^2 + 22w = 48$

2. Find the solution to the equation $x^2 + 4 = 2x$ using the quadratic formula. Don't forget to state your solutions!

3. Find the solution to the equation $(1 - 3x)^2 = 25$ using the square root property. Don't forget to state your solutions!

4. Find the solution to each equation using whatever method your heart desires. Don't forget to state your solutions!

a. $x^2 - 5x + 6 = 0$

b. $(x - 2)(x + 5) = -10$

5. Completely simplify each radical expression and write the result in the provided blank. **Do all of your work in the blank area at the bottom of the page; don't worry about the way you organize your work.**

a. $\sqrt{360} =$

b. $\sqrt{450} =$

c. $\frac{3 \pm \sqrt{12}}{3} =$

d. $\frac{3 \pm \sqrt{18}}{3} =$

e. $\frac{5 + \sqrt{25}}{5} =$

f. $\frac{4 + \sqrt{20}}{8} =$
