

**Math 70 Quiz #7**  
**November 9, 2010**

Name: \_\_\_\_\_

Show all work and answers on a separate paper. Staple this sheet to your answers. **Simplify** your answers as much as possible. No calculators are permitted on this quiz.

1. Find the solutions to the following equations. (Remember: You can check your answers.)

(a) (3 pts.)  $\frac{3}{4}x = \frac{1}{3}x + 5$

(b) (3 pts.)  $\frac{y+3}{5} = y + 7$

2. (3 pts.) Solve  $F = \frac{mv^2}{r}$  for the variable  $m$ . (Formula for centripetal force)

3. (3 pts.) Solve  $8x - 2y = 12$  for the variable  $y$ .

4. (3 pts.) Use an equation to solve the following word problem. Twelve more than triple a number is 37. What is the number?