Quiz 4

Name:

(20 points) Books, notes, and calculators are not allowed. Show all your work and clearly indicate your answers. Good Luck!

Simplify the following complex fractions

1. (3 pts)
$$\frac{x-y}{\frac{1}{y} - \frac{1}{x}}$$

Solve the following equations for x.

2. (3 pts)
$$2x - 3 = 4(x - 5)$$

3. (3 pts)
$$\frac{1}{x-2} + 2 = \frac{1}{3}$$

- 4. (4 pts) The cost to the retailer of a tv is \$85.
- (a). If the markup is 48% of the cost, what is the selling price?
- (b). If the markup is 48% of the selling price, what is the selling price?

- 5. (4 pts) A taxi charges an initial fee of \$1.75. Then each mile driven costs another \$2.10.
- (a). Let x be $_$ and write an expression for the number of dollars the taxi ride costs

(b). How much would you pay to ride 2.5 miles?

(c). If the taxi driver charges you \$13.30, how far did you ride in the taxi?

- **6.** (3 pts) Given $R(x) = 2x^2 + x$
- (a). Find R(-1)

(b). Find and simplify R(x+1)