#### Linear Relations Quiz Review

- 1. Take up any homework concerns.
- 2. <u>Section 3.1</u> a) independent vs. dependent b) p. 148 #10.
- 3. <u>Section 3.2</u> p. 151 #1
- 4. <u>Section 3.3</u> a) p. 156 #13, 7
  b) First Differences
  c) p. 163 # 2 4.
- 5. Complete quiz the second half of class.

## Section 3.1 - pg. 148

- 10. Antwan charges \$5/h, plus a flat fee of \$8, in his lawn-mowing business.
  - a) Describe the relation between earnings and hours using an equation.
  - b) Justify your choice for independent and dependent variables.

## Section 3.2 p. 151 #1

- 1. Identify each relation as a direct or a partial variation. Support your answer using a table, a graph, and form of the equation.

# Section 3.3 p. 156 #7

- 7. Determine the slope of the line that passes through each pair of points.
- **K** a) (3, 5) and (0, 2)
- **d**) (4, 0) and (6, 18)

- b) (3, 3) and (-2, 2) c) (21, -10) and (20, 24) e) (1, -1) and (2, 2) f) (-3, -8) and (-5, -6)

## Section 3.3 p. 156 #13

- **13.** The amount of money in Alexander's account is y = 4000 70x, where y is the amount in dollars and x is the time in weeks.
  - a) Which variable is independent and which is dependent?
  - b) How do you know the relation is linear?
  - c) Determine the rate of change of the money in Alexander's account.
  - d) What does the rate of change mean?
  - e) How does the rate of change relate to the equation?
  - f) When will Alexander's account be empty?

### Section 3.3 p. 163 #3a

- 3. Determine the rate of change in each relation. Is this relation linear?
  - x
     y

     3
     1

     6
     11

     9
     21