

**Math 80 Quiz #3**  
**January 26, 2010**

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

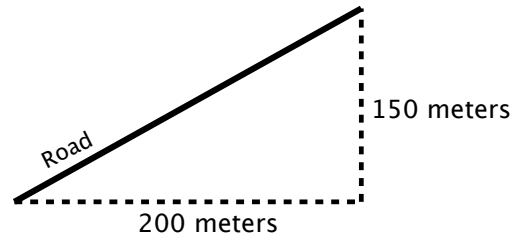
Show all work on a separate sheet. Put a box around your final answer. No calculators are permitted.

1. (3 pts.) Give the coordinates of the intercepts of  $\frac{1}{2}x + y = 2$  and use them to graph the equation.  
(Label your points & line and put a scale on your nicely drawn axes.)

2. (a) (1 pts.) Graph  $y = -1$ . (You may use your axes from problem #1. Be sure to label your line.)

(b) (1 pts.) What is the slope of the line  $y = -1$ ?

3. (2 pts.) What is the grade (slope) of the road given in the diagram? (Give your answer as a percentage.)



4. (3 pts.) Line 1 goes through the points  $(5, -1)$  and  $(2, -8)$ . Line 2 goes through  $(0, 7)$  and  $(-3, 0)$ . Are these lines parallel, perpendicular, or neither?