

Name _____

3-1A Lesson Master

Questions on SPUR Objectives

See pages 178–179 for objectives.

REPRESENTATIONS Objective E

- Suppose you are hiking up a large mountain. Your initial elevation is 300 ft above sea level. For every hour you hike your elevation increases by 350 ft.

- Write an equation relating your elevation to the number of hours you have hiked. _____

- Complete the table at the right.

Hours hiked	Elevation
0	
1	
2	
3	
4	
5	

- What is your elevation after hiking for 4 hours? _____

- If you were to graph the relationship between hours hiked and elevation, would your graph be discrete or continuous? _____

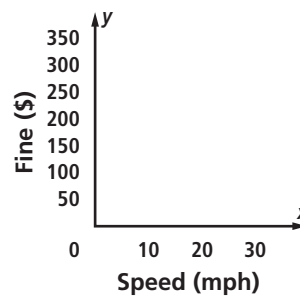
- Suppose a judge decided to fine speeders \$50 plus \$10 for every mile per hour they were driving in excess of the highway speed limit.

- Write an equation relating the excess speed of the offenders to the fine they incur. _____

- Complete the table below.

Excess Speed (mph)	Fine (\$)
5	
10	
15	
20	
25	
30	

- Plot fine vs. speed on the grid below.



- How much over the speed limit was Jared driving if he received a fine of \$250? Label this point on the grid in Part c. _____