

**Math 80 Quiz #2**  
**January 21, 2009**

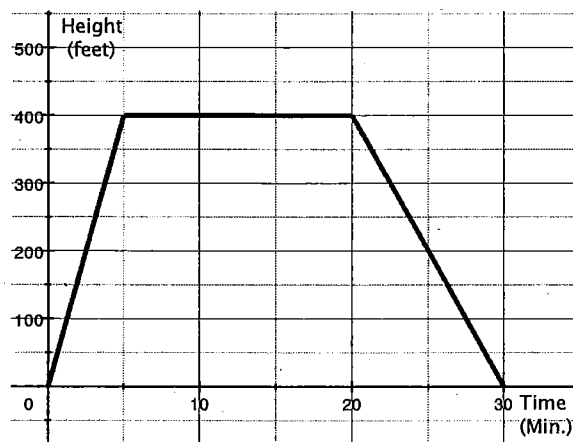
Name: \_\_\_\_\_

Show all work.

1. (3 pts.) Simon and Garfunkel are running a race against each other, so they leave from the same point at the same time. Simon runs at a speed of 9 ft/sec and Garfunkel runs at a speed of 7 ft/sec.

How long will it take for Simon to be 18 feet ahead of Garfunkel? (Use equations to solve and write your answer in a **complete sentence**.)

2. The following graph shows the height of a hot air balloon over a 30 minute trip. The balloon ascends, floats at a constant altitude for awhile, and then descends.



- (a) (2 pt.) How long did the balloon float at a constant altitude (height)?

- (b) (1 pt.) How high is the balloon after 25 minutes?

3. (a) (2 pts.) Complete the ordered pairs in the table below for the equation  $y = \frac{1}{2}x - 3$ .

$x$	$y$
-2	
	-3
6	

- (b) (2 pts.) Graph the equation  $y = \frac{1}{2}x - 3$  below. (Label your points.)

