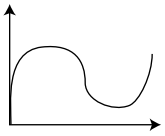
Name _____ Class _____ Date _____

Practice 7-1

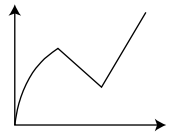
Relating Graphs to Events

Each graph represents a situation. Match a graph with the appropriate situation.

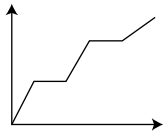
a.



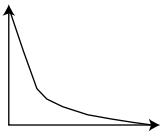
b.



c.



d.



1. the height above ground of a skydiver during a dive _____

2. the temperature of the air during a 24-h period beginning at 9:00 A.M. _____

3. a jogger gradually increases speed, steadily decreases speed, then steadily increases speed _____

4. elevator ride up with stops _____

5. Look at graph b above. Suppose the total time shown is 6 min. Estimate the times when the graph is increasing, decreasing, linear, and nonlinear.

Increasing: _____ linear: _____

decreasing: _____ nonlinear: _____

Sketch and label a graph of each relationship.

6. the height of a football after it has been kicked

7. the distance traveled by a car that was traveling at 50 mph, but is now stopped by road construction

8. The function table at the right shows the distance in feet that an object falls over time.

Time (s)	Distance (ft)
1	16
2	64
3	144
4	256