NAME _____ DATE _____ PERIOD _____

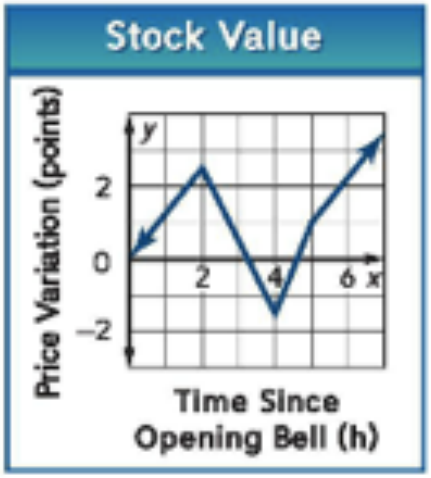
1-8 Notes

Interpreting Graphs of Functions

Interpret Extrema and End Behavior

Example: Stock Market Prices. Estimate and Interpret where the graph is positive, negative, increasing and decreasing, x co-ordinates of any relative extrema and end behavior of graph.

1.



Positive:

Negative:

Increasing:

Decreasing:

Relative Maximum:

Relative Minimum:

End Behavior:

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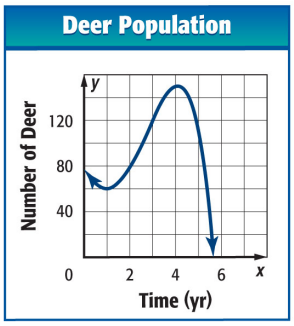
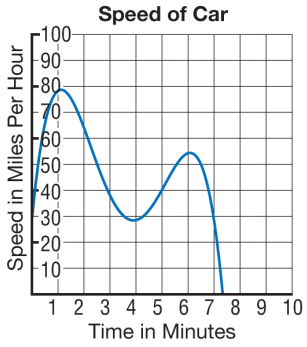
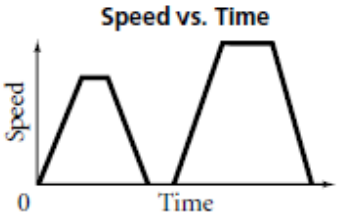
Interpret Extrema and End Behavior



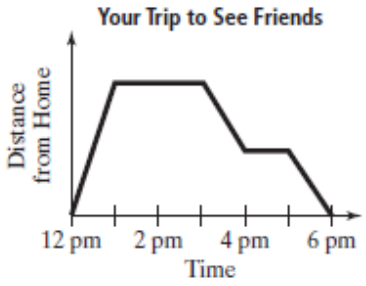


The graph shows the relationship between time and speed for a bus.



1. Label the sections of the graph that show the speed increasing.
2. Label the section of the graph that shows the bus not moving.
3. Label the sections of the graph that show the bus moving at a constant speed.

The graph shows the relationship between time and distance from home.



4. What do the flat parts of the graph represent?

_____

5. What do the sections from 3 P.M. to 4 P.M. and from 5 P.M. to 6 P.M. represent?

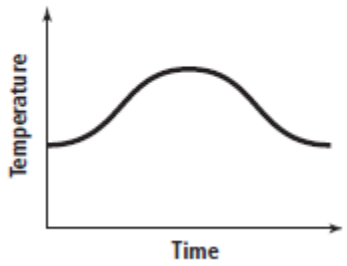
_____

6. What does the section from 12 P.M. to 1 P.M. represent?

_____

For each of the given graphs, describe a situation the graph could represent. Be sure to include what units would be used on each axis. For Exercises 6–8, include axis labels.

1.



2.