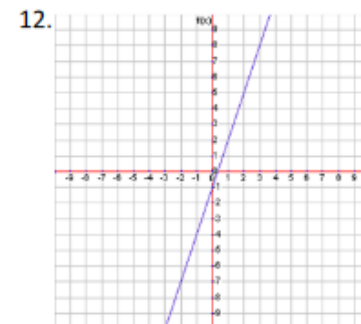
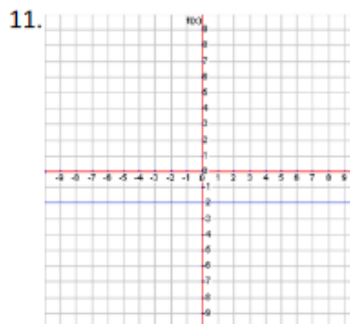
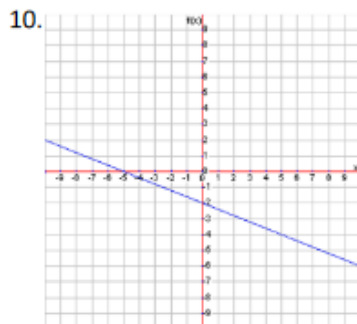
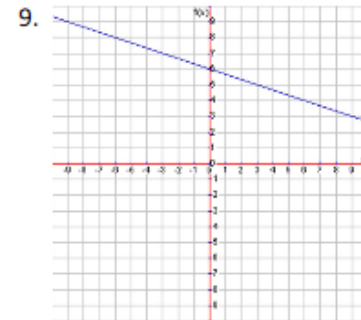
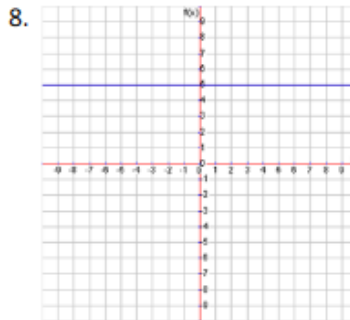
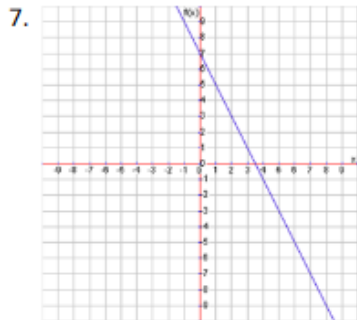
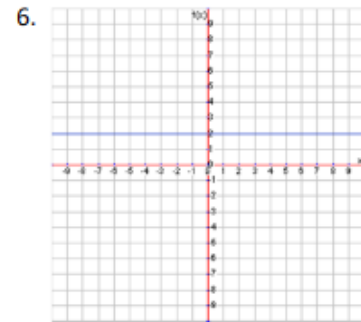
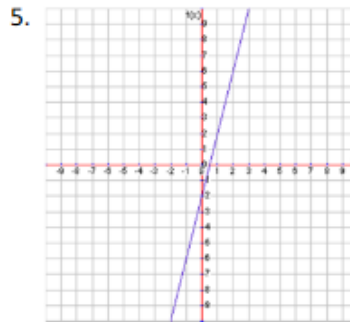
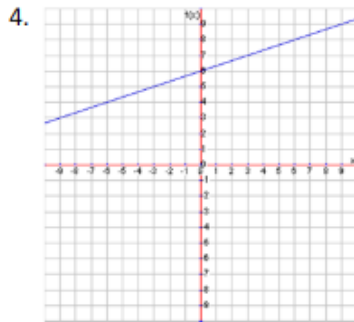
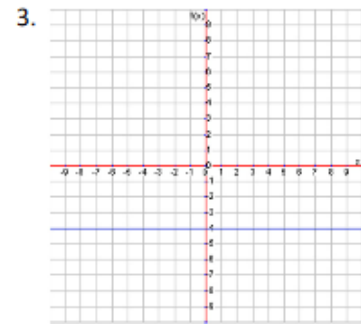
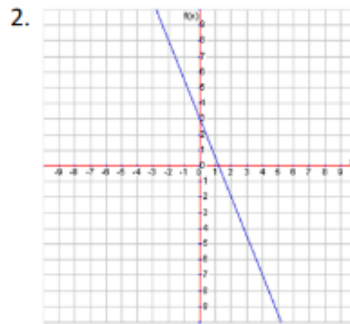
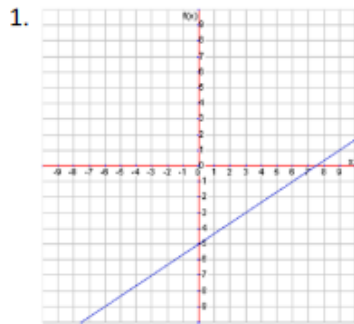


Increasing Linear, Decreasing Linear, or Non-Linear Graphs

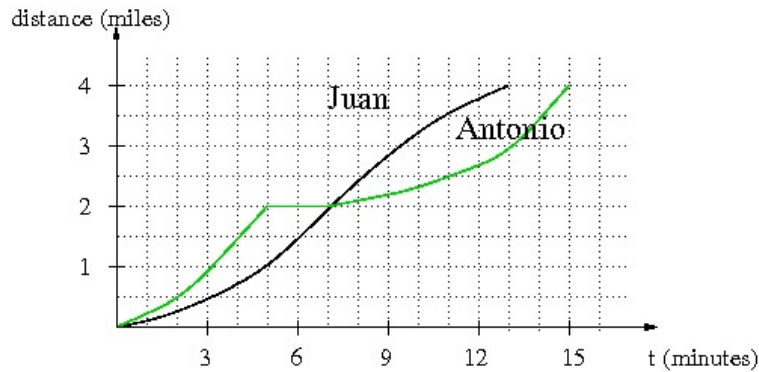
Key Ideas

- Some relations are nonlinear.
- If a relation is nonlinear, then the following are true:
 - The graph is not a straight line.
 - The first differences are not constant.
 - The degree of its equation is not 1.

For each linear graph tell whether it is increasing, decreasing, or constant.

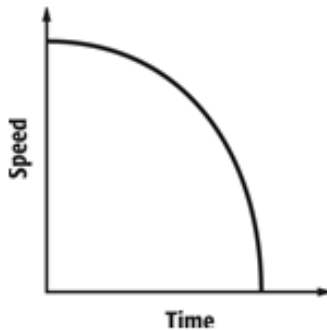


Antonio and Juan are in a 4-mile bike race. The graph below shows the distance of each racer (in miles) as a function of time (in minutes).



- Who wins the race? How do you know?
- Imagine you were watching the race and had to announce it over the radio, write a little story describing the race.

- The graph shows the speed of a car.



Which statement is true?

- The speed is increasing.
- The speed is decreasing.
- The speed is constant.
- The speed is increasing then decreasing.