

PhyzJob: Graph Basics

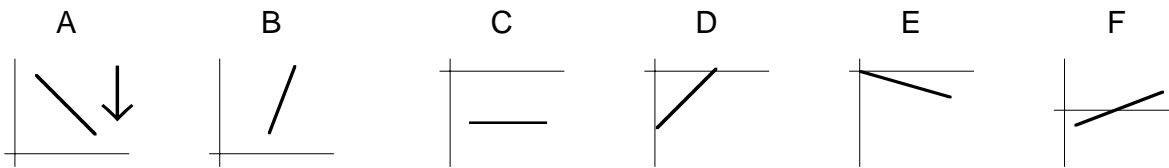
Points, Slopes, and Trends



1. Label the **y-value** of each point as positive (+), negative (-), or zero (0).



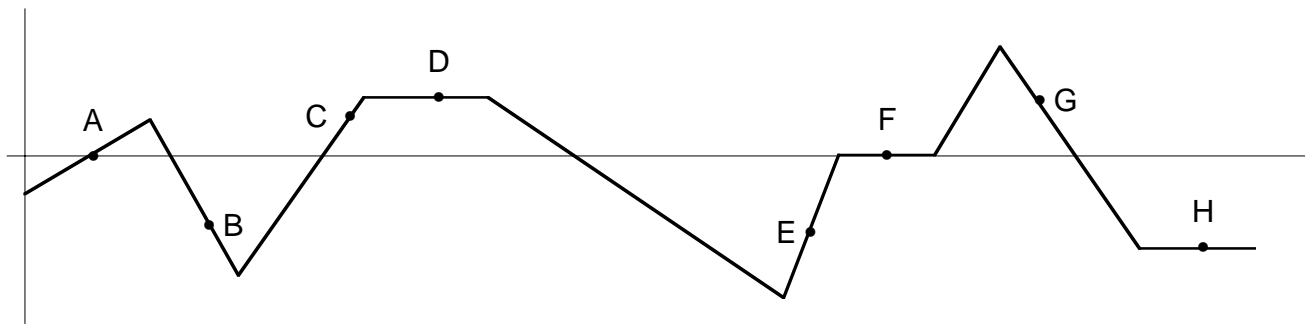
2. Label the **slope** of each segment as positive (\uparrow), negative (\downarrow), or zero (θ).



3a. Which segment from question 2 has the **greatest positive** slope?

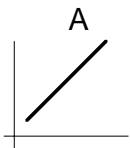
b. Which has the **greatest negative** slope?

4. Characterize both the **y-value** of the point and the **slope** of the line as it passes through that point.

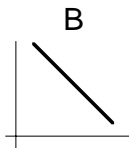


- The **y-value** of A is positive negative zero. The **slope** at A is positive negative zero.
- The **y-value** of B is positive negative zero. The **slope** at B is positive negative zero.
- The **y-value** of C is positive negative zero. The **slope** at C is positive negative zero.
- The **y-value** of D is positive negative zero. The **slope** at D is positive negative zero.
- The **y-value** of E is positive negative zero. The **slope** at E is positive negative zero.
- The **y-value** of F is positive negative zero. The **slope** at F is positive negative zero.
- The **y-value** of G is positive negative zero. The **slope** at G is positive negative zero.
- The **y-value** of H is positive negative zero. The **slope** at H is positive negative zero.

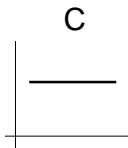
5. Describe what is happening to the slope in the following curves. Is it increasing, decreasing, or constant? (Circle one of those choices below each plot.)



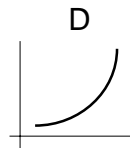
The slope is
 increasing
 decreasing
 constant



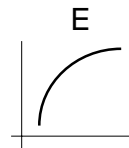
The slope is
 increasing
 decreasing
 constant



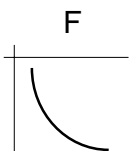
The slope is
 increasing
 decreasing
 constant



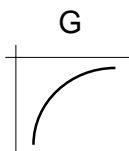
The slope is
 increasing
 decreasing
 constant



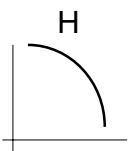
The slope is
 increasing
 decreasing
 constant



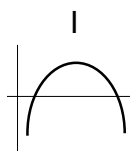
The slope is
 increasing
 decreasing
 constant



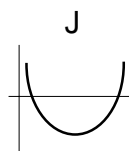
The slope is
 increasing
 decreasing
 constant



The slope is
 increasing
 decreasing
 constant



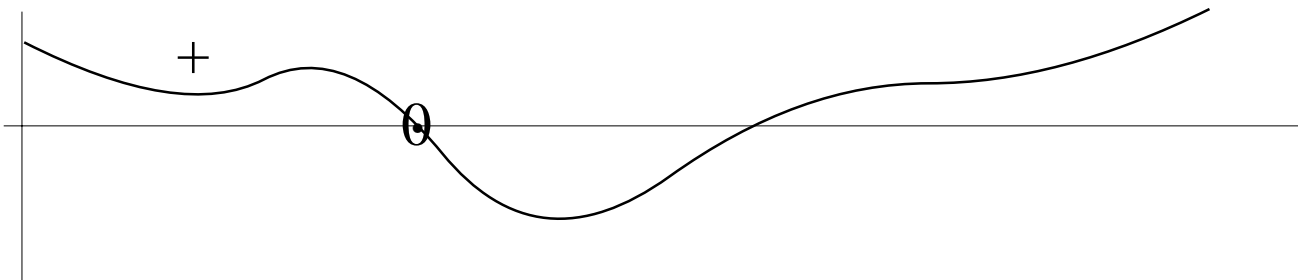
The slope is
 increasing
 decreasing
 constant



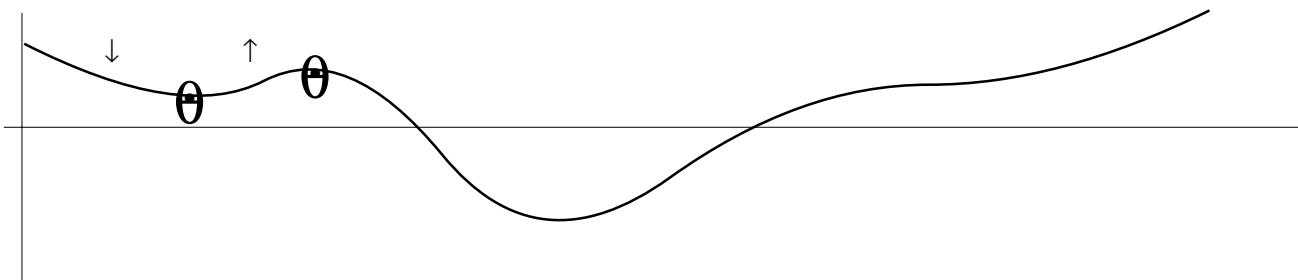
The slope is
 increasing
 decreasing
 constant

6. On each graph below, label

a. regions of positive y-values (+), regions of negative y-values (-) and points of zero value (0).



b. regions of positive slope (\uparrow), regions of negative slope (\downarrow); and points having zero slope (θ).



c. regions of increasing slope (☺) and regions of decreasing slope (☹).

