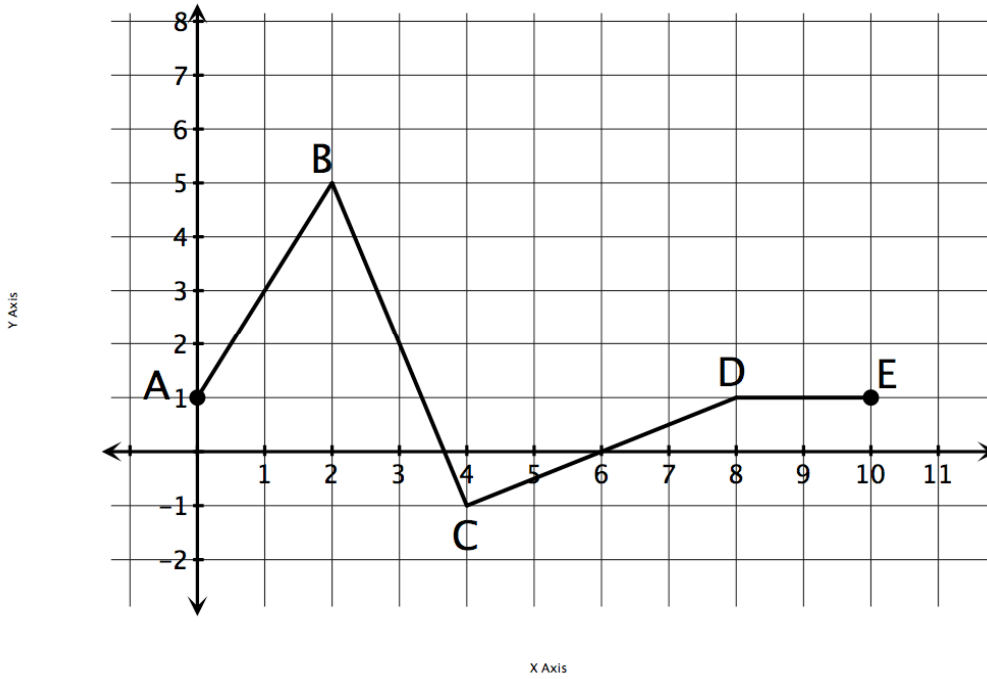


Graphical Analysis

Answer the questions that follow based upon the graph of $f(x)$ below.



1) What is the y-intercept of $f(x)$?

2) What is the slope of segment \overline{AB} ?

3) What is $f(1)$?

4) For what value(s) of x , does $f(x) = 2$?

5) Over which interval(s) is $f(x)$ increasing?

6) Over which interval(s) is $f(x)$ decreasing?

7) Over which interval(s) is $f(x)$ constant?

8) Over which interval is the value of the function changing the fastest? Justify your answer.