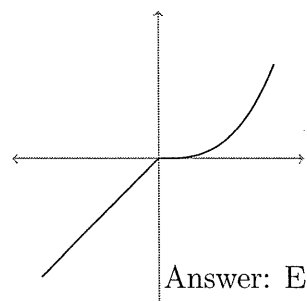
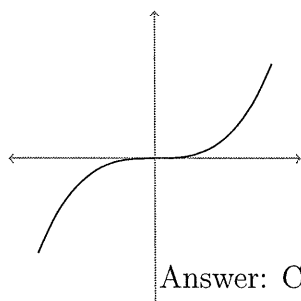
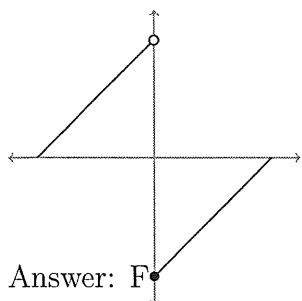
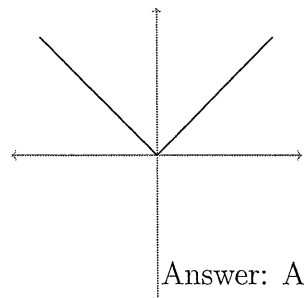
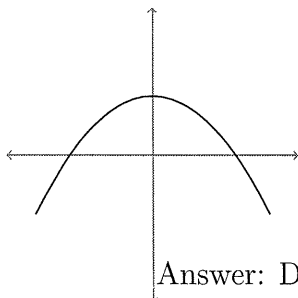
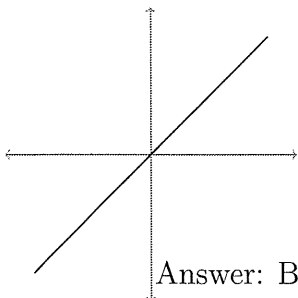
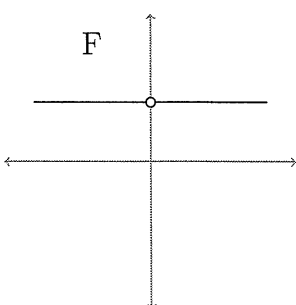
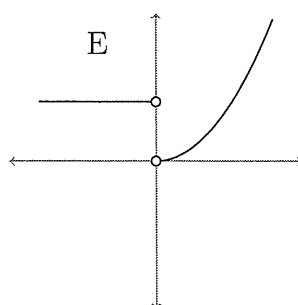
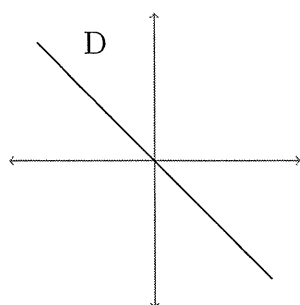
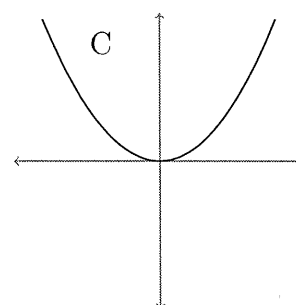
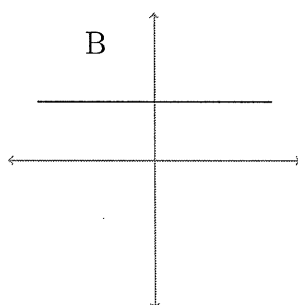
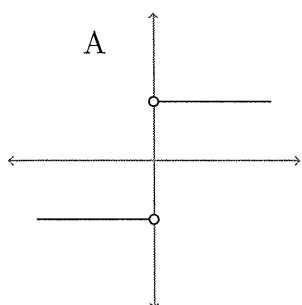


3. Six graphs of functions are below, along with six graphs of derivatives. Match the graph of each function with the graph of its derivative.

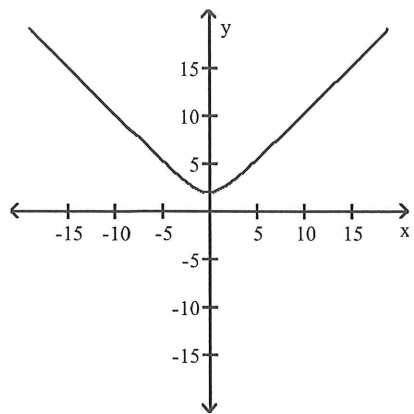
Original Functions:



Their derivatives:

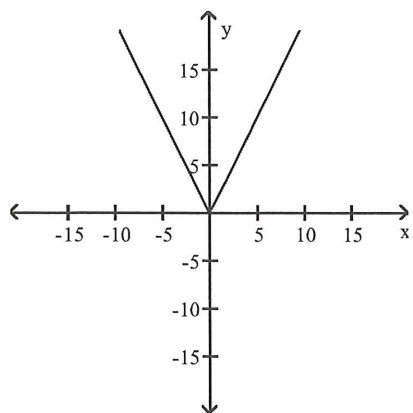


4)

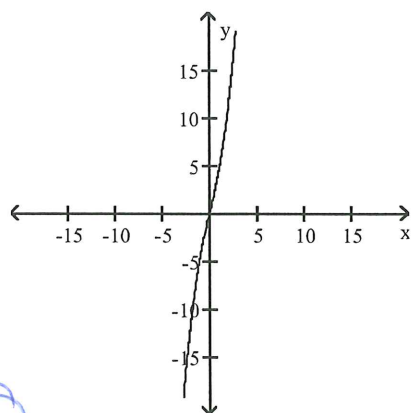


4) \_\_\_\_\_

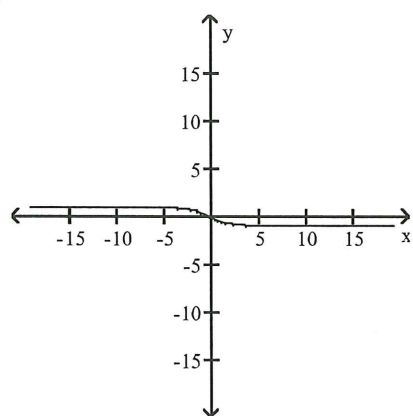
A)



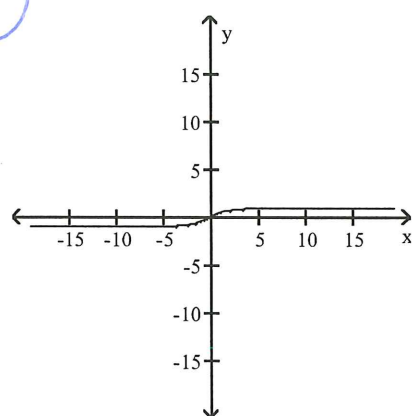
B)



C)



D)



## 2.1 Worksheet

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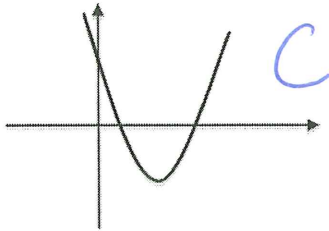
2.1 Worksheet

Name \_\_\_\_\_

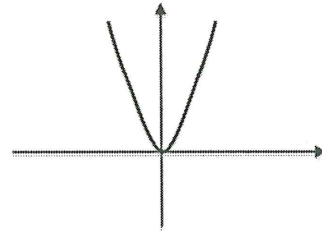
Date \_\_\_\_\_ Period \_\_\_\_

Part I. Match the graphs of functions I, II, and III to the graphs of their derivatives A, B, and C.

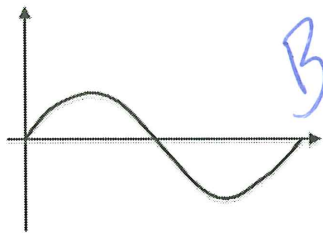
I.



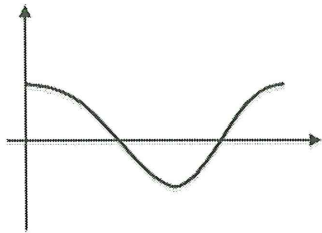
A.



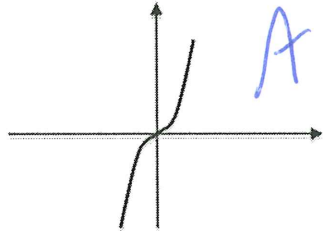
II.



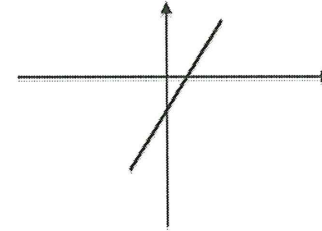
B.



III.

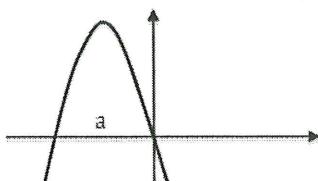


C.

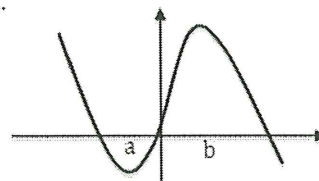


Part II. Create a chart to show intervals on which the function is increasing/decreasing and on which the derivative is positive/negative. Sketch the graph of the derivative on the same set of axes as the function.

1.

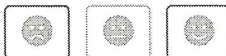


2.



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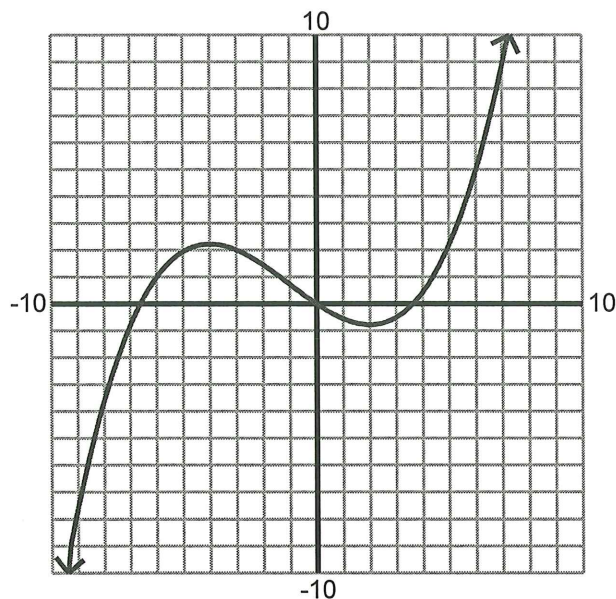
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## Graph Derivatives

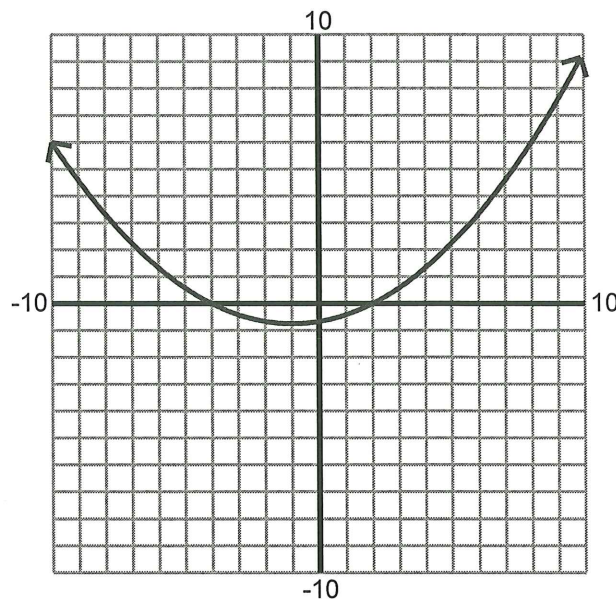
Using the graph of  $f(x)$ , draw an approximate graph of  $f'(x)$ .

1)  $f(x) = \frac{1}{36}x^3 + \frac{1}{12}x^2 - \frac{2}{3}x$

*Answer* →

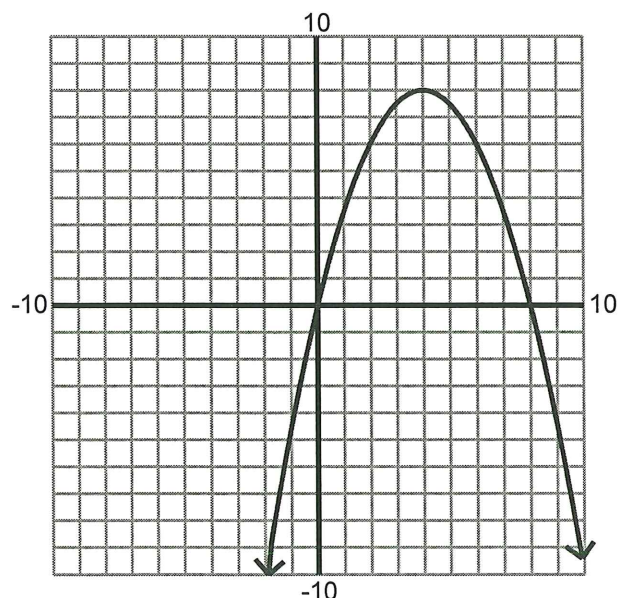


$f'(x)$

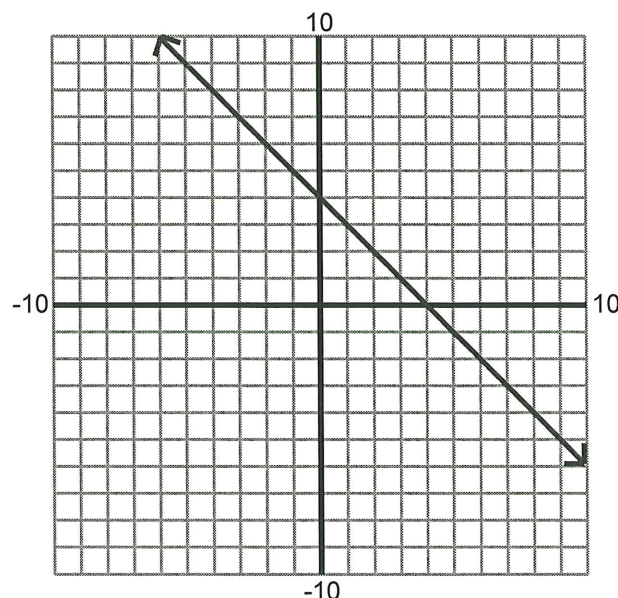


2)  $f(x) = -\frac{1}{2}x^2 + 4x$

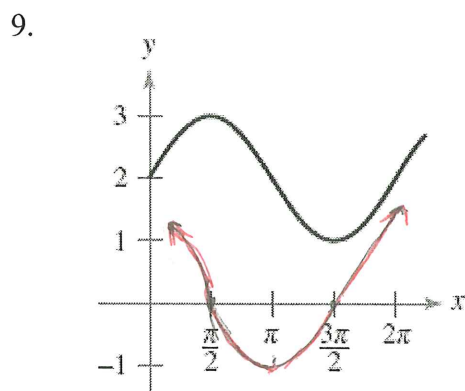
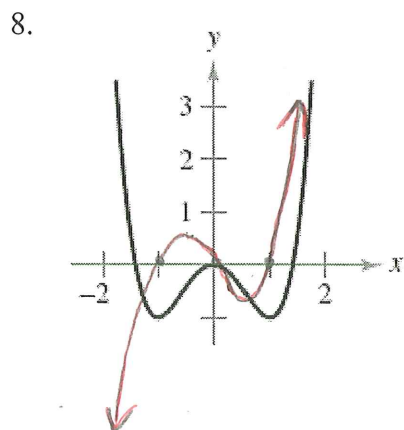
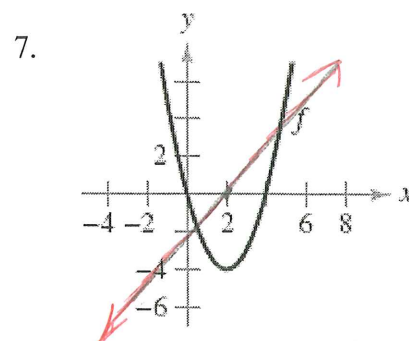
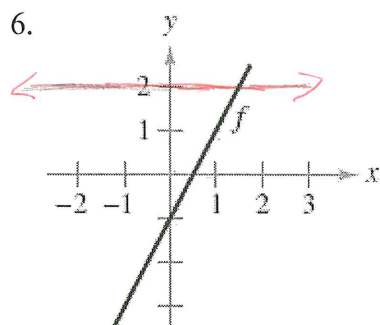
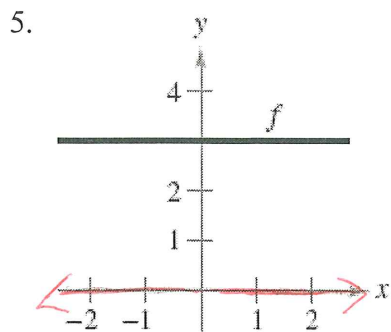
*Answer* →



$f'(x)$



The graph of  $f$  is given below. Sketch a possible graph of  $f'$  and  $f''$ .



The graph of  $f'$  is given below. Sketch a possible graph of  $f$ .

