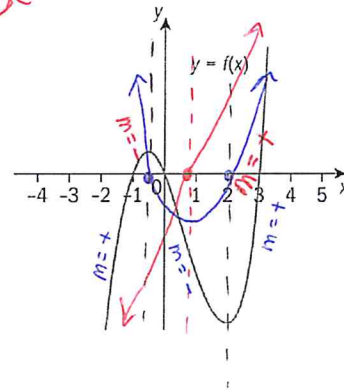


Exercise 7U

EXAM-STYLE QUESTIONS

- 1 The graph of $y = f(x)$ is given.
Sketch a graph of $y = f'(x)$ and $y = f''(x)$.

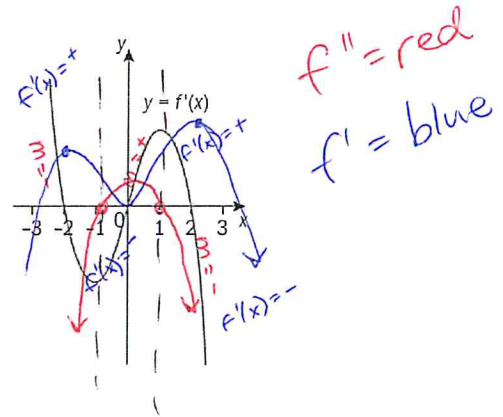
$f' = \text{blue}$
 $f'' = \text{red}$



Note: mins/maxs of red or blue graphs may vary.

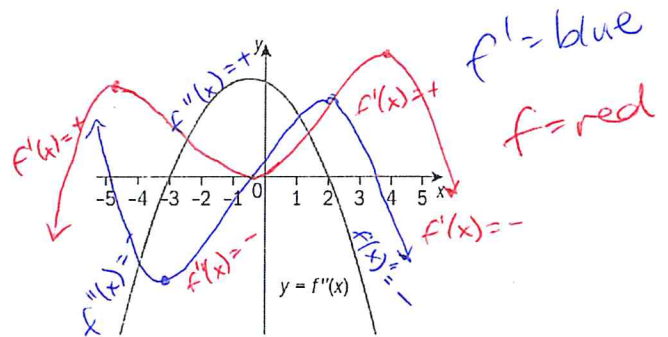
- 2 The graph of the derivative of f , $y = f'(x)$, is given.
Sketch a graph of $y = f(x)$ and $y = f''(x)$.

for $f' \rightarrow$ x-intercepts of $f'(x)$ = mins/maxs of $f(x)$



$f'' = \text{red}$
 $f' = \text{blue}$

- 3 The graph of the second derivative of f , $y = f''(x)$, is given. Sketch a graph of $y = f(x)$ and $y = f'(x)$.



$f' = \text{blue}$
 $f = \text{red}$