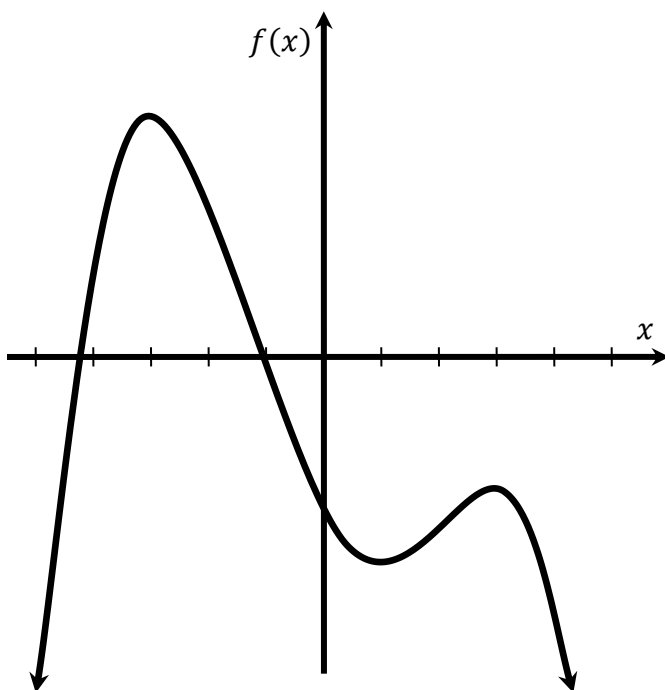


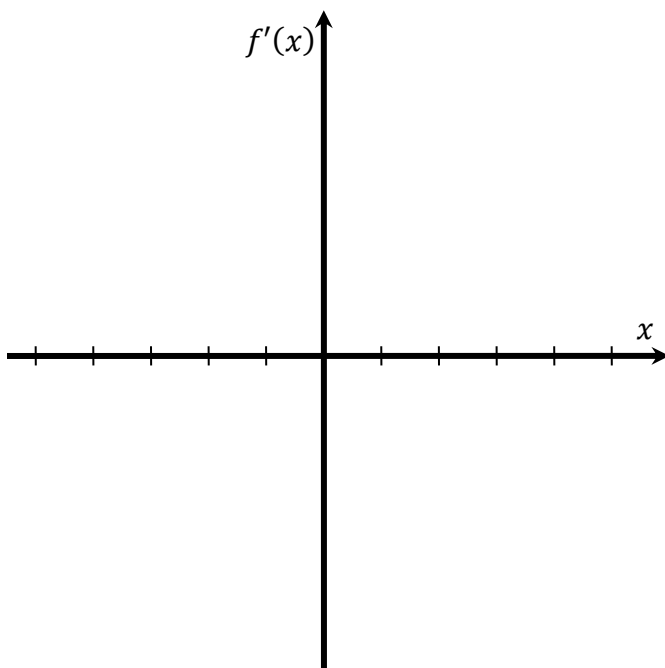
**Class Drill 11: Determining the Shape of the Graph of  $f'$  by Studying the Shape of the Graph of  $f$**

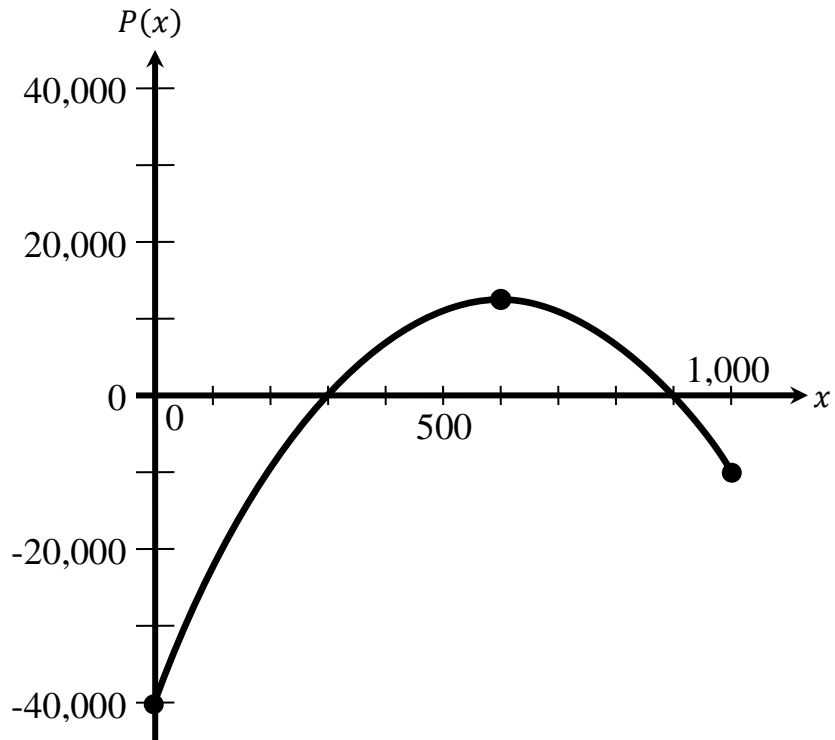


Use the given graph of  $y = f(x)$  to answer the following questions:

- (A) Find the intervals on which  $f'(x) > 0$ .
- (B) Find the intervals on which  $f'(x) < 0$ .
- (C) Find the values of  $x$  for which  $f'(x) = 0$ .

Then sketch a possible graph of  $y = f'(x)$ .





Use the given graph of  $y = P(x)$  to answer the following questions:

- (A) Find the intervals on which  $P'(x) > 0$ .
- (B) Find the intervals on which  $P'(x) < 0$ .
- (C) Find the values of  $x$  for which  $P'(x) = 0$ .

Then sketch a possible graph of  $y = P'(x)$ .

