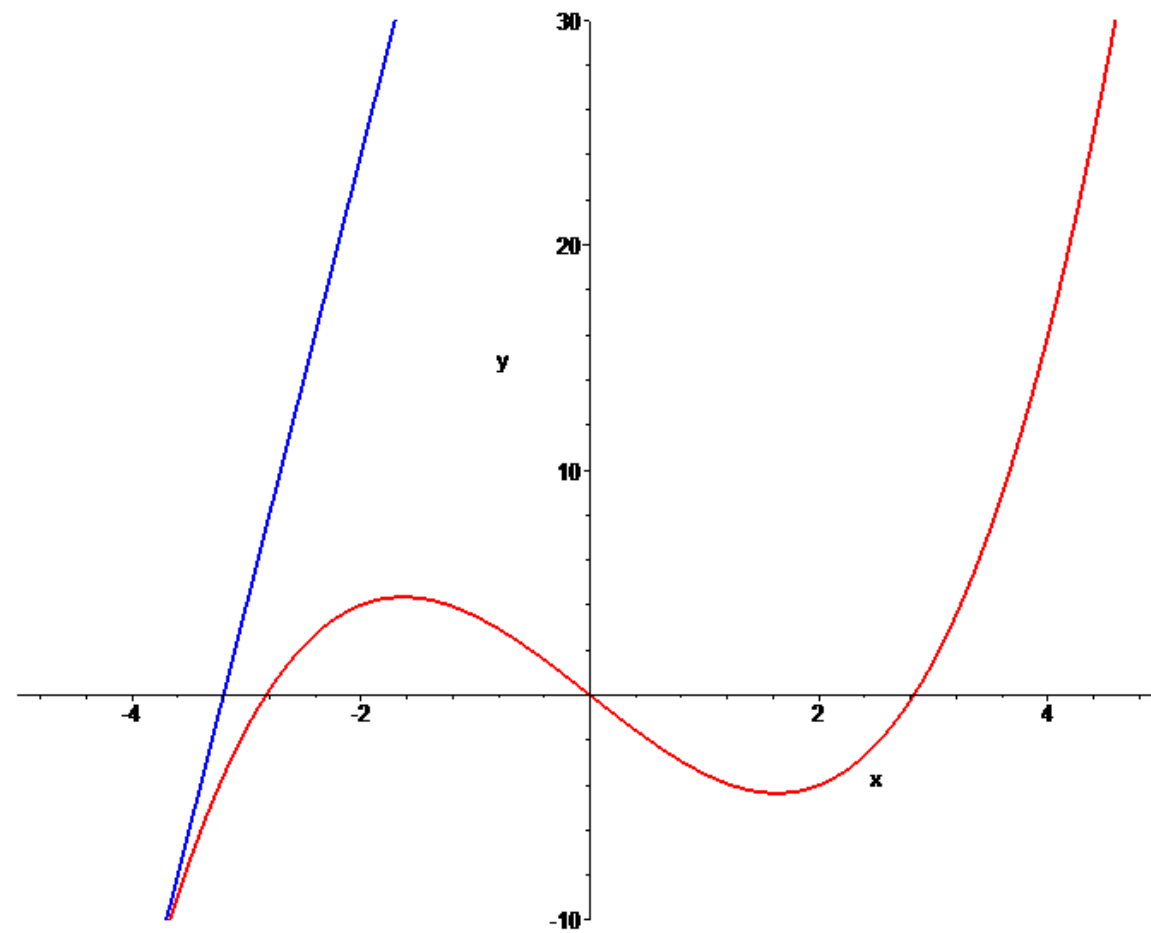


# CONCAVITY



## WARM UP

Sketch the graph of a function  $y = f(x)$  that has each of the given characteristics below.

(a)  $f(2) = f(4) = 0$

(b)  $f'(x) < 0$  if  $x < 3$

(c)  $f'(3)$  does not exist

(d)  $f'(x) > 0$  if  $x > 3$

(e)  $f''(x) < 0$  for  $x \neq 3$