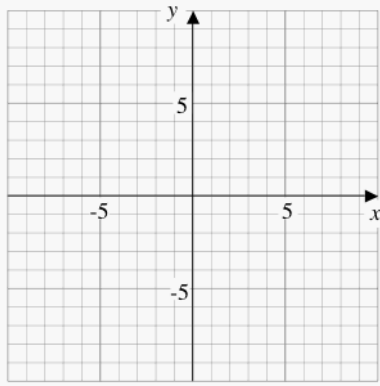
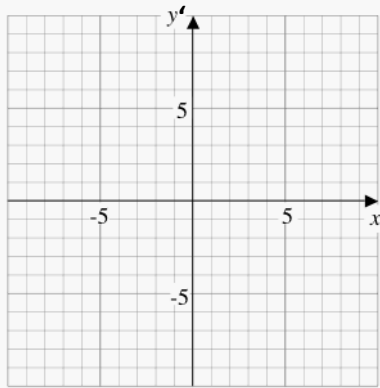


**SOME BASIC FUNCTIONS** Graph each function. Graph its derivative function. Write the intervals in which  $f'(x) > 0$ ,  $f'(x) < 0$ ,  $f'(x) = 0$ , and/or  $f'(x)$  DNE.

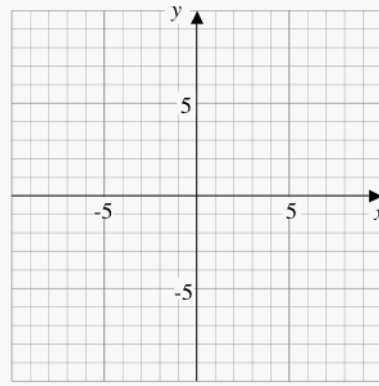
1.  $f(x) = -3$



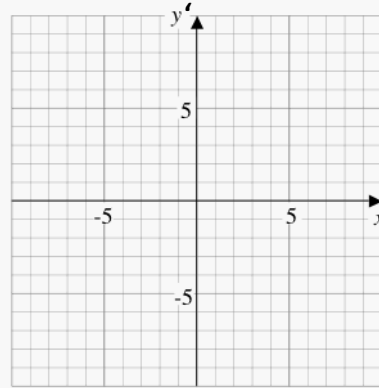
$f'(x) =$



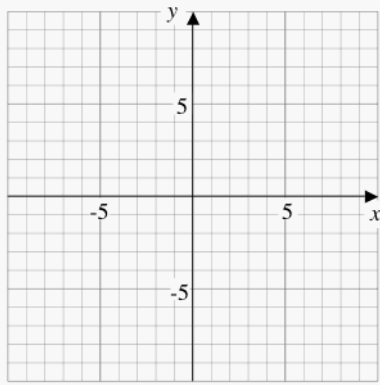
2.  $f(x) = x$



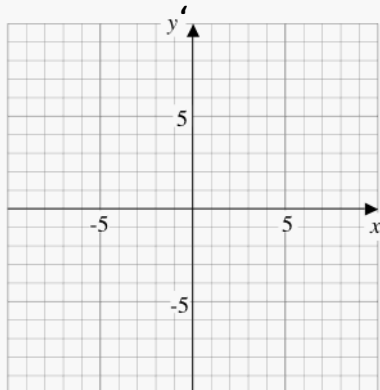
$f'(x) =$



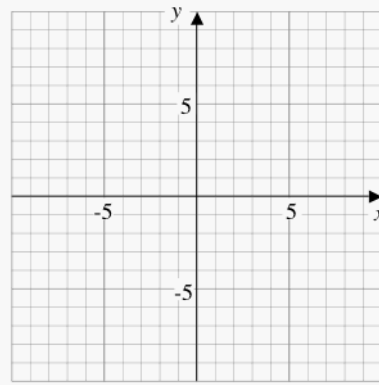
3.  $f(x) = |2x|$



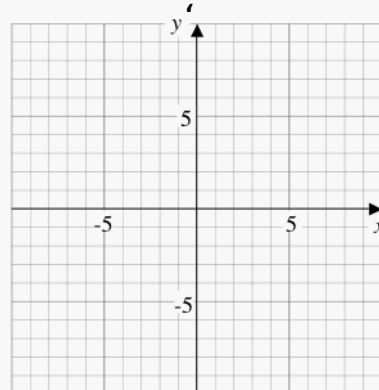
$f'(x) =$



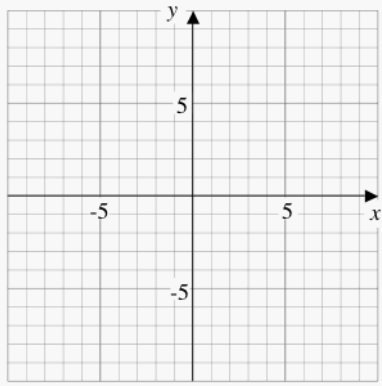
4.  $f(x) = 2 - 3x$



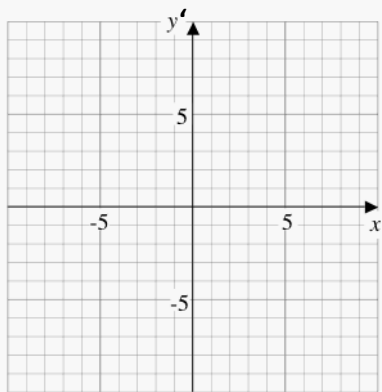
$f'(x) =$



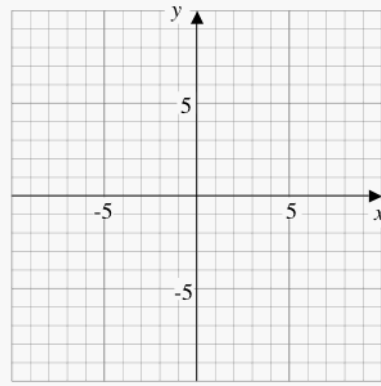
5.  $f(x) = x^2 + 1$



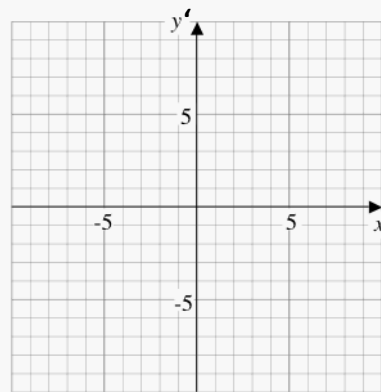
$f'(x) =$



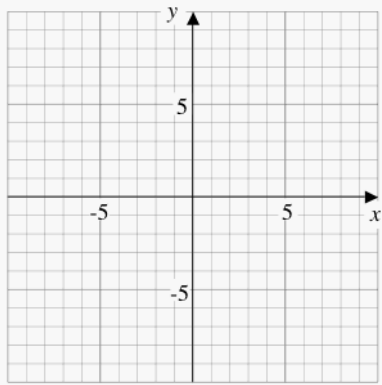
6.  $f(x) = 2\sqrt{x}$



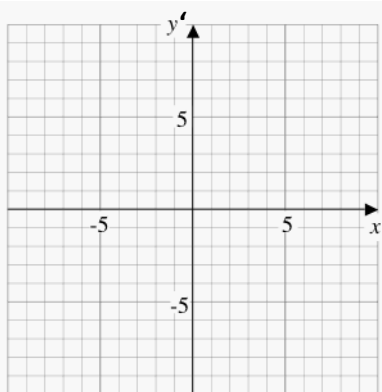
$f'(x) =$



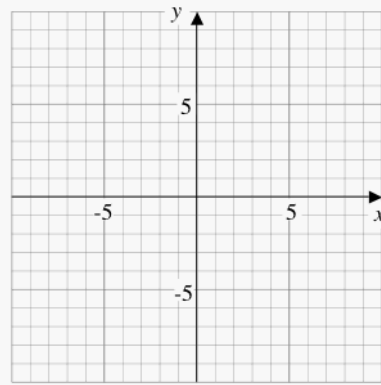
7.  $f(x) = x^3$



$f'(x) =$



8.  $f(x) = 3 \cdot \sqrt[3]{x}$



$f'(x) =$

