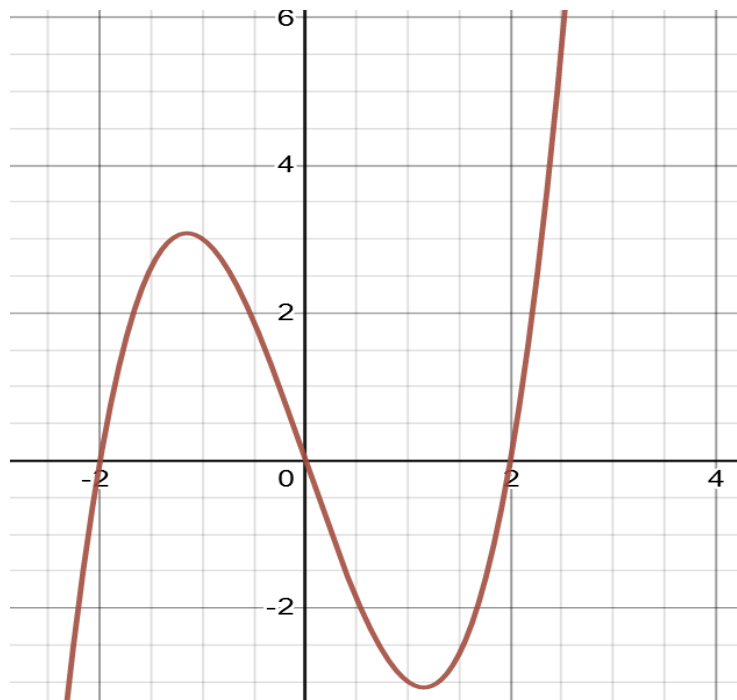


1. Given that f is represented by the following table
 - i. Estimate $f'(0)$ using forward difference quotients.
 - ii. Estimate $f'(2)$ using forward difference quotients.
 - iii. If $f'(x) = 0$, what is our best guess for the value(s) of x ?

x	0	2	4	6
$f(x)$	4	0	6	6

2. Given that f is represented by the following graph:
 - i. Estimate $f'(0)$
 - ii. Estimate $f'(2)$
 - iii. Estimate two values of x such that $f'(x) = 0$.



3. Given that $f(x) = 3x - 2$, and we want the derivative at $x = 1$,
 - i. Find the derivative graphically and numerically using Desmos taking a screen shot: <https://www.desmos.com/calculator/kak2bzhnkq>.
 - ii. Find the derivative using the algebraic definition.

4. Given that $f(x) = 2x^2$, and we want the derivative at $x = 2$,
 - i. Find the derivative graphically and numerically using Desmos taking a screen shot: <https://www.desmos.com/calculator/kak2bzhnkq>.
 - ii. Find the derivative using the algebraic definition.

5. Given that $f(x) = x^3$, and we want the derivative at $x = 1$,
 - i. Find the derivative graphically and numerically using Desmos taking a screen shot: <https://www.desmos.com/calculator/kak2bzhnkq>.
 - ii. Find the derivative using the algebraic definition.

6. Given that $f(x) = x^2 + 2x$, and we want the derivative at $x = 2$,
 - i. Find the derivative graphically and numerically using Desmos taking a screen shot: <https://www.desmos.com/calculator/kak2bzhnkq>.
 - ii. Find the derivative using the algebraic definition.