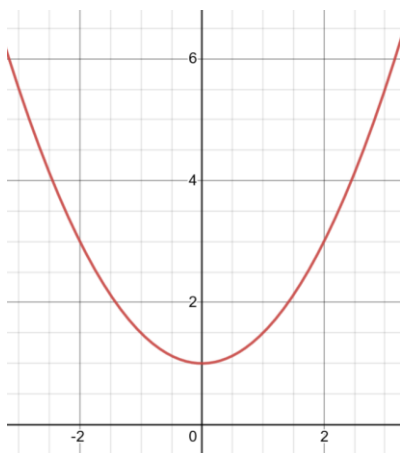


1. If f is represented by the following table, fill in the missing rows on the table.

x	0	2	4	6
$f(x)$	4	6	7	6
$(a, f(a)), (a+h, f(a+h))$ to approximate f' .				Leave blank
$f'(x)$				Leave blank

2. Given the following graph of $y = f(x)$, draw the approximate graph of $y = f'(x)$.

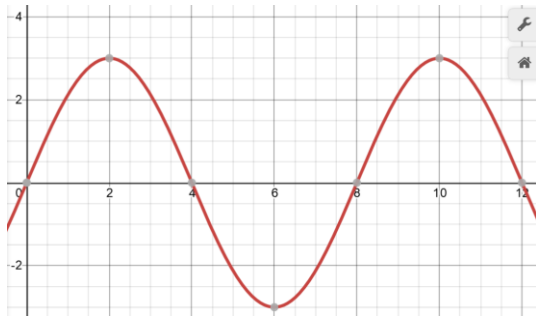


3. Given that $y = f(x) = x^2$, use the algebraic definition to find a formula for $y = f'(x)$. *Show all of your work!*

4. If f is represented by the following table, fill in the missing rows on the table.

x	0	0.5	1	1.5
$f(x)$	3	2	4	8
$(a, f(a)), (a+h, f(a+h))$ to approximate f' .				Leave blank
$f'(x)$				Leave blank

5. Given the following graph of $y = f(x)$, draw the approximate graph of $y = f'(x)$.

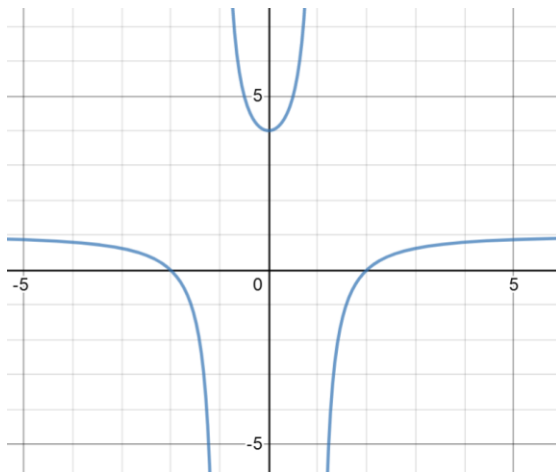


6. Given that $y = f(x) = 2x^2 + 1$, use the algebraic definition to find a formula for $y = f'(x)$.
Show all of your work!

7. If f is represented by the following table, fill in the missing rows on the table:

x	0.1	0.2	0.3	0.4
$f(x)$	1.1	0.7	1.0	1.3
$(a, f(a)), (a+h, f(a+h))$ to approximate f' .				Leave blank
$f'(x)$				Leave blank

8. Given the following graph of $y = f(x)$ draw the approximate graph of $y = f'(x)$



9. Optional: Given that $y = f(x) = 4x^3 + 3x^2$, use the algebraic definition to find a formula for $y = f'(x)$. Show all of your work!