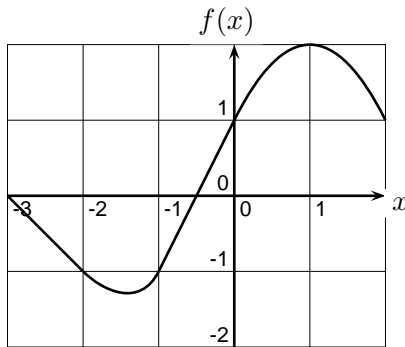


6. (12 points) The graph of a function f is shown below, together with a table of values for its derivative f' . Let $g(x) = f(f(x))$.



| x | $f'(x)$ |
|-----|---------|
| -3 | -1 |
| -2 | -1 |
| -1 | 2 |
| 0 | 2 |
| 1 | 0 |
| 2 | -2 |

- (a) (2 points) Find $g(-2)$
- (b) (3 points) Find $g'(-2)$
- (c) (3 points) Write an expression for $g''(x)$ in terms of f and its derivatives.
- (d) (4 points) Suppose $f''(-1) = 2$. What is $g''(-1)$?