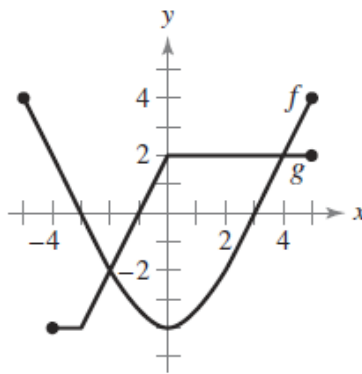


Ex. 1 The graph of $f(x)$ is given above. Use the graph to answer the following:

- Determine $f(0)$ and $f(2)$?
- Is $f(-6)$ positive or negative? Explain your reasoning.
- On what interval(s) is $f(x)$ increasing? How do you know?
- For which x -values does $f(x) = 0$?
- For how many x -values does $f(x) = 4$? Explain.
- Find the average rate of change of $f(x)$ on $[-8, 2]$.



Ex. 2 Use the graphs of f and g to answer the following questions:

a) Evaluate $g(f(3))$.

b) For what value(s) of x does $f(x) = g(x)$?

c) For what value(s) of x is $f(x) > g(x)$?