1. The graph of $y = f(x)$ is shown below. Sketch the graphs of $y = f(x + 2)$ and $y = -f(x)$ on the same set of axes. Be sure to label which is which.

2. Assume that $f$ is a polynomial. What is the minimum degree $f$ could have? How do you know?

3. The leading coefficient of $f$ is either positive or negative. Which is it? How do you know?

4. Let $f(x) = \ln(x)$ and $g(x) = x^2 - 5$. What is $f(g(x))$? $g(f(1))$?