

Name _____

- No calculators are allowed.

1. (2 points) Find the domain of the function $f(x) = \sqrt{6 - 2x}$.

2. (3 points) Suppose that $f(x) = \frac{1}{4 - x}$ and $g(x) = 2^x$.

(a) Find a formula for $(f \circ g)(x)$.

(b) Find the domain of $(f \circ g)(x)$.

3. (2 points) If the point $(2, 3)$ is on the graph of an odd function, then what other point must also be on the graph?

4. (3 points) Carefully sketch the graph of $y = 3 + 2e^{-x}$. If there are any horizontal or vertical intercepts or asymptotes, then their locations should be accurately shown on your graph.