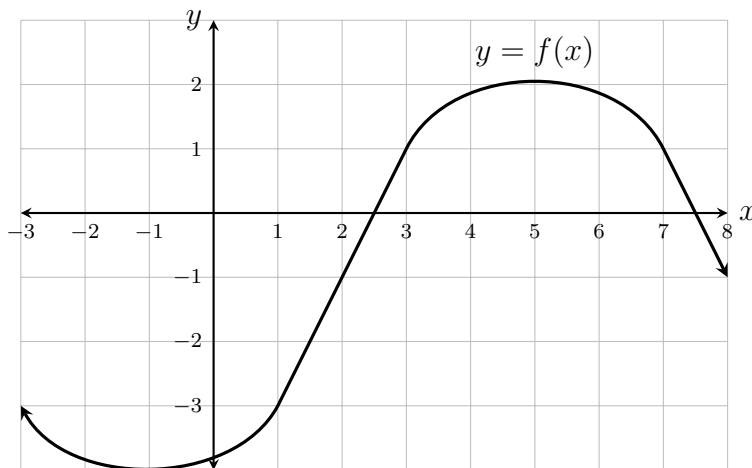


Name: _____

Directions: Closed book, closed notes, no calculators.By submitting this quiz you affirm that you agree with this statement: *On my honor, I have neither given nor received unauthorized aid on this assignment, and I pledge that I am in compliance with the VCU Honor System.*

1.
$$\frac{d}{dx} \left[\frac{2x^5 + e^x}{1-x} \right] =$$

2. Find all x for which the tangent line to $y = f(x) = \sqrt{x} - 2x$ at $(x, f(x))$ is horizontal.3. Answer the question involving the function $f(x)$ whose graph is sketched below.(a) State all x for which $f'(x) = 0$.(b) Let $g(x) = f(x) \cdot f(x)$. Find $g'(2)$.(c) Let $h(x) = \frac{x}{f(x)}$. Find $h'(5)$.