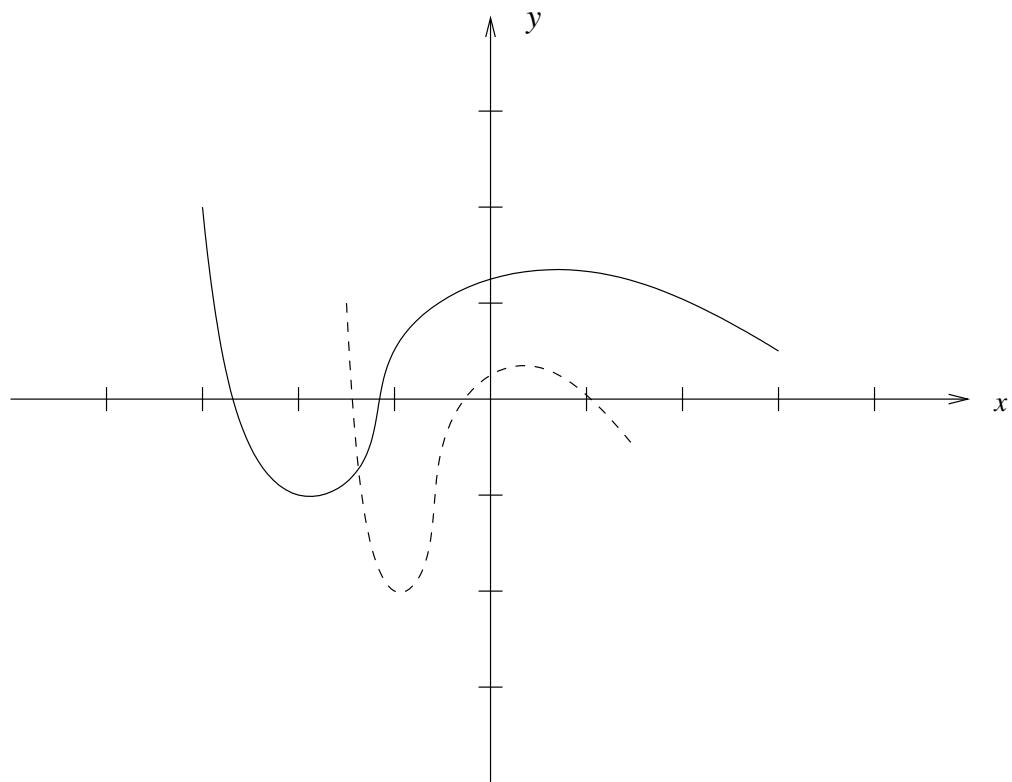


Quiz 1 Solution (version A)

Name _____

Student ID Number _____

1. The graph $y = f(x)$ of a function f is shown. On the same grid, sketch the graph of $y = f(2x) - 1$.



2. Find the inverse function $f^{-1}(x)$ of the function $f(x) = \sqrt{3x - 2}$, and specify the domain of $f^{-1}(x)$.

$$f^{-1}(x) = (x^2 + 2)/3, \text{ with domain } [0, \infty).$$

3. Evaluate $\log_5(50) + 2\log_5(2) - \log_5(8)$.

$$\log_5(50) + 2\log_5(2) - \log_5(8) = \log_5(25) = 2.$$