

Quiz 10

Name: _____

1. Find the derivatives of the following functions. [You may use shortcuts.]

(a) $f(x) = x^5$

(c) $h(t) = 14\sqrt{t}$

(b) $g(x) = \frac{1}{x^2}$

(d) $r(t) = \sqrt[3]{t^2}$

2. Why can you not immediately apply the power rule to the function $\frac{1}{x^2}$ and get $\frac{1}{2x^1}$ for its derivative?