

Name: \_\_\_\_\_

\_\_\_\_\_ / 25

Instructor: Bueler | Jurkowski | Maxwell

There are 25 points possible on this quiz. No aids (book, calculator, etc.) are permitted. Show all work for full credit.

1. [15 points] Compute the derivatives of the following functions. You need not simplify your answers.

a.  $f(x) = e^x - 6 + x^{\frac{5}{2}}$

b.  $g(w) = \frac{\pi}{w^2} - 3w$

c.  $h(x) = \frac{1}{2-x^2}$

d.  $R(s) = (s^3 - 1)e^s$

e.  $f(x) = \frac{2-x^3}{3+x}$

