

MATH 140: Quiz 3

Name (1 point):

#1. (24 points) Differentiate any THREE of the following functions. Make sure to clearly indicate which functions you are differentiating.

$$f(x) = 6 + \frac{1}{x^2} + 2 \ln x + 5x$$

$$p(s) = 4s^7 + \sqrt{s} + 13^s + \ln 2$$

$$g(t) = (\ln t)(t^2 + 3t)$$

$$h(u) = \frac{\sqrt{u}}{e^u}$$

$$k(r) = (\ln r)^3$$

BONUS (8 points) Differentiate another function from the list above that you have not already differentiated.