

Find the derivative of each function using the appropriate rule.

$$s(t) = -32t^2 + 16t + 200 \quad s'(t) =$$

$$p(q) = \frac{50}{0.01q^2 + 1} \quad p'(q) =$$

$$f(x) = e^{7x-6} \quad f'(x) =$$

$$h(x) = (x^3 + 9)(e^{-3x}) \quad h'(x) =$$

$$R(x) = 1000\sqrt{x} \quad R'(x) =$$