SECTION 3.4 CHAIN RULE (DAY 2)

Evaluate the derivatives.

1. $H(x) = \sqrt[3]{\dfrac{4-2x}{5}}$

2. $y = e^{\sec\theta}$

3. $f(x) = \dfrac{8}{x^2 + \sin(x)}$

4. $x(t) = \dfrac{1}{\sqrt{2}}\tan(\dfrac{\pi}{6} - x)$

5. $y = \dfrac{xe^{-\pi x^2/10}}{100}$

6. $y = \dfrac{e^2 - x}{5 + \cos(5x)}$

7. $y = e^{2t/(1-t)}$

8. $f(x) = \cos^3(\frac{8}{1+x^2})$

9. $h(x) = (x + (x + \sin(2x))^5)^{1/2}$

10. $F(x) = (2re^{rx} + n)^p$ (Assume r, n, and p are fixed constants.)