MA 137 Worksheet #17

Subsections 4.10.2 & 10.3 & Review for Exam 10/13/20

- Find the derivative of the following functions with respect to *x*:
 - 1. $g(x) = \log(2x^5 + \sin(x))$
 - 2. $h(x) = x^3 \ln(6x) + 4xe^{5x^3 2x}$
 - 3. $y = x^{2x}$ (use logarithmic differentiation)

• Find the derivative of the following functions with respect to x and the tangent lines at x = 3:

1.
$$G(x) = \log \sqrt{x}$$

2.
$$H(x) = e^{-x^2} \ln(7x)$$