

MA 137 Worksheet #16

Sections 4.8 & 4.9

10/8/20

- Find the derivative of the following functions with respect to x :

1. $f(x) = \sin^2(3x - 5)$
2. $g(x) = \sec(x^2 + 2\sqrt{x})$
3. $h(x) = x^3 \tan(5x^3)$

- Find the derivative of the following functions with respect to x :

1. $f(x) = e^{\cos(2x)}$
2. $h(x) = e^{2x} \cos(3x) + 4xe^{5x^3-2x}$

- Find the second derivative with respect to x of the function $f(x) = x \cos x + \sin x$.