

Name: _____

This quiz covers: 3.4, 3.5, and 3.6.

Directions: Complete all questions and **show all applicable work.** Partial credit will be given. All questions are equally weighted.

1.) Compute the following value. Be sure to show your work (no calculator).

$$\sin\left(\cos^{-1}\left(\frac{3}{5}\right)\right)$$

2.) Find $\frac{dy}{dx}$ given the following relationship:

$$\sin(y) + xy = x^2$$

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3.) Using the graph below, let $F(x) = f(g(x))$, find $F'(5)$.

