Calculus AB

2-4

Chain Rule (with Trig)

Find the derivative of the function. (pg 137)

46)
$$\sin \pi x$$

52)
$$g(\theta) = \sec(\frac{1}{2}\theta) \tan(\frac{1}{2}\theta)$$

54)
$$g(v) = \frac{\cos v}{\csc v}$$

60)
$$h(t) = 2\cot^2(\pi t + 2)$$

Evaluate the derivative of the function at the indicated point.

74)
$$y = \frac{1}{x} + \sqrt{\cos x}, \qquad (\frac{2}{\pi}, \frac{\pi}{2})$$

$$(\frac{2}{\pi},\frac{\pi}{2})$$

Find the second derivative of the function.

$$96) f(x) = \sec^2 \pi x$$

Assignment:

Pg. 137 45 - 81 odd 91 - 95 odd