Quiz 6.2 – Derivatives and Antiderivatives of Cosine and Sine

1. (1 pt) alfredLibrary/AUCI/chapter6/lesson2/quiz/trigderiv11pet.pg Complete the derivative and integral formulas. Assume that x is measured in radians.

(a)
$$\frac{d}{dx}(\sin(x)) = \underline{\hspace{1cm}}$$

(b)
$$\frac{d}{dx}(\cos(x)) = \underline{\hspace{1cm}}$$

(c)
$$\int \sin(x) dx = \underline{\qquad}$$

(d)
$$\int \cos(x) dx = \underline{\hspace{1cm}}$$

2. (1 pt) alfredLibrary/AUCI/chapter6/lesson2/quiz/trigderiv22pet.pg

(a) If
$$y = \frac{3 + \sin x}{x + \cos x}$$
, then $y' = \underline{\hspace{1cm}}$

(b) If
$$y = e^{\cos(9x)}$$
, then $y' =$ _____.

3. (1 pt) alfredLibrary/AUCI/chapter6/lesson2/quiz/trigderiv33pet.pg Evaluate each integral. Assume that x and t are measured in radians.

(a)
$$\int \cos(3.25x) dx = \underline{\hspace{1cm}}$$

(a)
$$\int \cos(3.25x) dx =$$

(b) $\int_0^{\pi/4} \sin(4t) dt =$ _____

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