

Please PRINT your name \_\_\_\_\_

**No calculators, cell phones, computers, notes, etc.**

Circle your answer. Make your work correct, complete and coherent.

The quiz is worth 5 points. The solutions will be posted on my website later today.

**Quiz 14, October 21, 2019**

Let  $f(t, \alpha) = \cos(2\pi t - \alpha)$ . Find  $\frac{\partial f}{\partial t}$  and  $\frac{\partial f}{\partial \alpha}$ .

**ANSWER:** We see that

$$\frac{\partial f}{\partial t} = -2\pi \sin(2\pi t - \alpha)$$

and

$$\frac{\partial f}{\partial \alpha} = \sin(2\pi t - \alpha).$$