

Quiz 3
MTH 13 Section E01
9 March 2017

Your name:

Instructions: Please answer the following and be sure to show your work or support your answer. You are not allowed to use the textbook, workbook, or notes. You cannot talk to other students. You may use your calculator.

1.

(1) Let $f(x) = x^2$. What is

$$\frac{f(x+h) - f(x)}{h}$$

if $x = 1$?

(2) How does the answer of (1) become when $h \rightarrow 0$?

2. Draw any circle in the xy -plane and explain why it is not a graph of a function.