Math 10A with Professor Stankova
Quiz 2; Wednesday, 9/6/2017
Section \#107; Time: 11 AM
GSI name: Roy Zhao
Name:

Circle True or False or leave blank. (1 point for correct answer, -1 for incorrect answer, 0 if left blank)

1. True False If $f(x)=\sqrt{x}$, then the domain of $f^{-1}(x)$ is all real numbers.
2. True False If $f, g$ are functions such that $\lim _{x \rightarrow 0} f(x)=L$ and $g$ is continuous at $x=L$, then we must have $\lim _{x \rightarrow 0} g(f(x))=g(f(0))$.

Show your work and justify your answers.
3. (10 points) Let $f(t)=\frac{\sqrt{t+3}-3}{t-6}$.
(a) (2 points) What is the domain of $f$ ?
(b) (3 points) Find $\lim _{t \rightarrow 1} f(t)$.
(c) (5 points) Find $\lim _{t \rightarrow 6} f(t)$.

