Math 10A with Professor Stankova
Quiz 2; Wednesday, 9/6/2017
Section \#106; Time: 10 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 The range of an invertible function $f$ is the domain of the inverse $f^{-1}$.
2. True False If a function $f$ is defined at $x=0$, then we must have $\lim _{x \rightarrow 0} f(x)=f(0)$.

Show your work and justify your answers.
3. (10 points) Let $f(t)=\frac{\sqrt{9-t^{2}}-3}{t^{2}}$.
(a) (2 points) What is the domain of $f$ ?
(b) (3 points) Find $\lim _{t \rightarrow \sqrt{5}} f(t)$.
(c) (5 points) Find $\lim _{t \rightarrow 0} f(t)$.

