

MATH 150A-QUIZ 8, WINTER 2019

Name: _____

1. (5 pts) Let f and g are monotone increasing functions. Show that if the composite function $f \circ g$ is defined, then it also monotone increasing.

2. (5 pts) Show that the limit set of the set of rational numbers, i.e. $\mathbb{Q}'$, is the set of real numbers $\mathbb{R}$, i.e. every real number is a limit point of the set of rational numbers, or simply $\mathbb{Q}' = \mathbb{R}$.