

MATH 150A-QUIZ 2, WINTER 2020

Name: _____

1. Show by definition that

$$\lim_{n \rightarrow \infty} \frac{1}{n^2} = 0.$$

2. Show that if $\{a_n\}$ is convergent and $\{b_n\}$ is divergent, then $\{a_n + b_n\}$ is divergent.