MATH 150A-QUIZ 2, WINTER 2020

Name: _____

1. Show by definition that

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

2. Construct two divergent conquences $\{a_n\}$ and $\{b_n\}$ so that $\{a_n + b_n\}$ is convergent.