2020 SPRING CALCULUS 0412: QUIZ 1 (MARCH 16, 2020)

NAME: STUDENTS ID:

1. (5 points) Let $\{a_n\}_{n=1}^{\infty}$ be a sequence, and has the limit L, that is, $\lim\limits_{n\to\infty} a_n = L$. Describe the definition of the limit in a rigorous way

2. (5 points) Find the exact length of the polar curve $r = 2\cos\theta$, $0 \le \theta \le \pi$.