

Attendance Quiz 17

Name: _____ Date : _____

1. Determine whether the sequence converges or diverges. If it converges, find the limit.

(a) $a_n = \left(1 + \frac{2}{n}\right)^{\frac{1}{n}}$

(b) $a_n = \frac{2^n}{3^{n+1}}$

2. Determine whether the series is convergent or divergent. If it converges, find its sum.

(a) $\sum_{n=0}^{\infty} \frac{\pi^n}{4^{n+1}}$

(b) $\sum_{n=2}^{\infty} \frac{1}{n^2 - 1}$