Quiz 7 MATH 2502 Spring 2019

$$\sum_{n=0}^{\infty} \left(-\frac{1}{7}\right)^n = \frac{1}{1-\left(-\frac{1}{7}\right)} = \frac{1}{1+\frac{1}{7}} = \frac{1}{8/7} = \frac{7}{8}$$

↑ geometric, $r = -\frac{1}{7}$ $\Rightarrow$ converges