

# Limits of Sequences

For each of the sequences: - write the rule that gives the next term  
- write the next three terms  
- if the series has a limit, write the limit

**1**  $\frac{1}{2}$   $\frac{1}{4}$   $\frac{1}{8}$  \_\_\_ \_\_\_ \_\_\_ **Limit:** \_\_\_\_\_

**Rule:** \_\_\_\_\_

**1**  $-\frac{1}{2}$   $\frac{1}{3}$   $-\frac{1}{4}$  \_\_\_ \_\_\_ \_\_\_ **Limit:** \_\_\_\_\_

**Rule:** \_\_\_\_\_

**0.3** **0.33** **0.333** \_\_\_ \_\_\_ \_\_\_ **Limit:** \_\_\_\_\_

**Rule:** \_\_\_\_\_

**5** **5** **5** **5** \_\_\_ \_\_\_ \_\_\_ **Limit:** \_\_\_\_\_

**Rule:** \_\_\_\_\_

**1** **3** **6** **10** \_\_\_ \_\_\_ \_\_\_ **Limit:** \_\_\_\_\_

**Rule:** \_\_\_\_\_