

Group Investigation



1 $u_1 = 3, r = 2$

2 $u_1 = -4, r = -2$

3 $u_1 = 100, r = \frac{1}{2}$

4 $u_1 = -7299, r = -\frac{1}{3}$

5 $u_1 = 10\,000, r = \frac{1}{10}$

6 $u_1 = 1, r = 3$

1. Generate the first five terms of each sequence.
2. Classify each as “converging” or “diverging”.
(what do you think these classifications mean?)
3. Make a rule for “r” values for converging sequences and another rule for “r” for diverging sequences.