

Recursive Formula

Unit 7: Representations of Exponential Relations

Identify the first term of the sequence and the common ratio, and then find the recursive formula.

1. $-2, 4, -8, 16, \dots$	2. $375, -75, 15, -3, \dots$
3. $0.5, -2, 8, -32, \dots$	4. $1, 3, 9, 27, \dots$
5. $3, 18, 108, 648, \dots$	6. $1, 2, 4, 8, \dots$
7. $-2.5, -5, -10, -20, \dots$	8. $4, -\frac{2}{3}, \frac{1}{9}, -\frac{1}{54}, \dots$
9. $-2, -10, -50, -250, \dots$	10. $5120, 1280, 320, 80, \dots$

11. $-5, -\frac{5}{3}, -\frac{5}{9}, -\frac{5}{27}, \dots$	12. $2, -\frac{1}{2}, \frac{1}{8}, -\frac{1}{32}, \dots$
13. $-4, -20, -100, -500, \dots$	14. $32, 16, 8, 4, \dots$
15. $-3, 9, -27, 81, \dots$	16. $-1, -\frac{1}{4}, -\frac{1}{16}, -\frac{1}{64}, \dots$
17. $-3, -18, -108, -648, \dots$	18. $-1, 5, -25, 125, \dots$
19. $-2, -6, -18, -54, \dots$	20. $-3, -9, -27, -81, \dots$