

Geometric

1)

n	1	2	3
f(n)	3	6	12

$$\frac{12}{3} = 4 \quad \sqrt[2]{4} = 2 \text{ or } -2$$

what number times itself two times is 4?

2)

n	1	2	3	4
f(n)	7	35	175	875

$$\frac{875}{7} = 125 \quad \sqrt[3]{125} = 5$$

What # times itself 3 times gives you 125?

3)

n	1	2	3	4	5
f(n)	6	12	24	48	96

$$\frac{96}{6} = 16 \quad \sqrt[4]{16} = 2 \text{ or } -2$$

★ Odd # of terms means that there are two possible r-values

General Rule:

n	1	2	...	n
f(n)	f(1)	f(2)	...	f(n)

$$\text{ME} \quad \frac{f(n)}{f(1)} = \# \quad n-1 \sqrt{\#}$$

$$\frac{\text{Right Bottom}}{\text{Left + Bottom}} = \# \quad \begin{matrix} \# \text{ of} \\ \text{steps} \end{matrix} \sqrt{\#}$$