

Extra Sequence Problems

1.) Determine the n th term (starting with $n = 1$) for each of the following sequences.

a.) $(1 + 1)^1, (1 + 1/2)^2, (1 + 1/3)^3, (1 + 1/4)^4, \dots$

b.) $0, 1/5, 2/6, 3/7, 4/8, 5/9, \dots$

c.) $4, 9, 16, 25, 36, 49, \dots$

d.) $1, 8, 27, 64, 125, 216, \dots$

e.) $3, 12, 27, 48, 75, 108, \dots$

f.) $8, 10, 12, 14, 16, 18, \dots$

g.) $5/2, 25/4, 125/6, 625/8, \dots$

h.) $1/3, 1, 3, 9, 27, 81, \dots$

i.) $1, 5, 10, 16, 23, 31, \dots$

j.) $4, 2, 1, 1/2, 1/4, 1/8, \dots$

k.) $2, 6, 12, 20, 30, 42, \dots$

l.) $1, -2, 3, -4, 5, -6, \dots$

* m.) $1, 3, 1, 3, 1, 3, \dots$

* n.) $0, 0, 0, 6, 24, 60, 120, 210, \dots$

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