



Patterning - Equation from Rule for Geometric Pattern

1

Find the correct equation that this pattern rule describes

Start at 2 and multiply by 4 for each term

A	$a_n = 2 \times 4^n$	B	$a_n = 2 \times 7^{n-1}$
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C	$a_n = 2 \times 1^{n-1}$	D	$a_n = 2 \times 4^{n-1}$
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E	$a_n = -1 \times 4^{n-1}$	F	$a_n = a_{n-2} + a_{n-1}$
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2

Find the correct equation that this pattern rule describes

Start at 1 and multiply by 3 for each term

A	$a_n = 1 + 3(n-1)$	B	$a_n = 1 \times 3^n$
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C	$a_n = 1 \times 3^{n-1}$	D	$a_n = 1 \times 2^{n-1}$
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E	$a_n = 5 \times 3^{n-1}$	F	$a_n = a_{n-2} + a_{n-1}$
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3

Find the correct equation that this pattern rule describes

Start at 3 and multiply by 5 for each term

A	$a_n = a_{n-2} + a_{n-1}$	B	$a_n = 3 + 5(n-1)$
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C	$a_n = 3 \times 5^n$	D	$a_n = 1 \times 5^{n-1}$
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E	$a_n = 3 \times 5^{n-1}$	F	$a_n = -1 \times 5^{n-1}$
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4

Find the correct equation that this pattern rule describes

Start at 1 and multiply by 5 for each term

A	$a_n = -3 \times 5^{n-1}$	B	$a_n = 3 \times 5^{n-1}$
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C	$a_n = 1 - 5(n-1)$	D	$a_n = 1 \times 5^n$
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E	$a_n = a_{n-2} + a_{n-1}$	F	$a_n = 1 \times 5^{n-1}$
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5

Find the correct equation that this pattern rule describes

Start at 3 and multiply by 3 for each term

A	$a_n = -1 \times 3^{n-1}$	B	$a_n = 3 \times -1^{n-1}$
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C	$a_n = 3 \times 3^n$	D	$a_n = 3 + 3(n-1)$
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E	$a_n = 3 \times 3^{n-1}$	F	$a_n = 3 \times 7^{n-1}$
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6

Find the correct equation that this pattern rule describes

Start at 3 and multiply by 4 for each term

A	$a_n = a_{n-2} + a_{n-1}$	B	$a_n = 3 \times 3^{n-1}$
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C	$a_n = 3 + 4(n-1)$	D	$a_n = 3 \times 4^n$
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E	$a_n = 3 \times 4^{n-1}$	F	$a_n = 3 \times 2^{n-1}$
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7

Find the correct equation that this pattern rule describes

Start at 2 and multiply by 3 for each term

A	$a_n = 2 \times 3^n$	B	$a_n = 2 \times 3^{n-1}$
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C	$a_n = a_{n-2} + a_{n-1}$	D	$a_n = 5 \times 3^{n-1}$
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E	$a_n = 2 + 3(n-1)$	F	$a_n = 2 - 3(n-1)$
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8

Find the correct equation that this pattern rule describes

Start at 2 and multiply by 2 for each term

A	$a_n = 2 \times 2^n$	B	$a_n = 2 \times 2^{n-1}$
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C	$a_n = a_{n-2} + a_{n-1}$	D	$a_n = 6 \times 2^{n-1}$
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E	$a_n = 2 \times -2^{n-1}$	F	$a_n = 2 + 2(n-1)$
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