

<p>1 What is the 5th term of the geometric sequence below?</p> $f(1) = 45, f(n) = \frac{1}{3}f(n - 1)$	<p>2 Write the first 6 terms of the sequence defined by the recursive rule below.</p> $f(1) = 17, f(n) = f(n - 1) - 3$	<p>3 What are the 3rd, 5th & 7th terms of the sequence?</p> $f(2) = 21, f(n) = f(n - 1)\frac{1}{2}$																				
<p>4 Write the first 3 terms of the sequence defined by the recursive rule $f(1) = \frac{1}{2}, f(n) = f(n - 1) + \frac{1}{2}$.</p> <table border="1" data-bbox="218 743 726 941"> <thead> <tr> <th>n</th> <th>$f(n)$</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>3</td> <td></td> </tr> </tbody> </table>	n	$f(n)$	1		2		3		<p>5 What is the 15th term of the sequence below?</p> $f(3) = -8, f(n) = f(n - 1) + .5$	<p>6 Complete the table for the sequence below.</p> $f(1) = \frac{2}{3}, f(n) = f(n - 1)(-3)$ <table border="1" data-bbox="1360 782 1892 893"> <thead> <tr> <th>n</th> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </thead> <tbody> <tr> <th>$f(n)$</th> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	n	1	2	3	4	5	$f(n)$					
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<p>7 What is the 9th term of the sequence below?</p> $f(1) = 0, f(n) = f(n - 1) - 8$	<p>8 What are the 4th, 8th & 12th terms of the sequence?</p> $f(1) = -4, f(n) = f(n - 1) + 5$	<p>9 Write the first 7 terms of the sequence defined by the recursive rule below.</p> $f(1) = -2, f(n) = -2f(n - 1)$																				

<p>10 Write the first 4 terms of the sequence defined by the recursive rule below.</p> $f(1) = -\frac{1}{4}, f(n) = f(n - 1)2$	<p>11 What is the 11th term of the sequence below?</p> $f(5) = \frac{3}{4}, f(n) = -4f(n - 1)$	<p>12 What is the 5th term of the sequence below?</p> $f(1) = -4, f(n) = f(n - 1) + 3$												
<p>13 Complete the table for the sequence below.</p> $f(2) = -6, f(n) = -\frac{1}{3}f(n - 1)$ <table border="1" data-bbox="197 781 741 915"> <tbody> <tr> <td><i>n</i></td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td><i>f(n)</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	<i>n</i>	2	3	4	5	6	<i>f(n)</i>						<p>14 What are the 4th, 5th & 6th terms of the sequence?</p> $f(3) = 3, f(n) = f(n - 1) - 1$	<p>15 Write the first 6 terms of the sequence.</p> $f(1) = 2, f(n) = -1.5f(n - 1)$
<i>n</i>	2	3	4	5	6									
<i>f(n)</i>														
<p>16 What is the 12th term of the sequence below?</p> $f(1) = 7, f(n) = f(n - 1) - 3$	<p>17 Write the first 3 terms of the sequence defined by the recursive rule $f(1) = 2, f(n) = f(n - 1)5$.</p> <table border="1" data-bbox="793 1117 1299 1313"> <thead> <tr> <th><i>n</i></th> <th><i>f(n)</i></th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>3</td> <td></td> </tr> </tbody> </table>	<i>n</i>	<i>f(n)</i>	1		2		3		<p>18 What is the 8th term of the sequence below?</p> $f(1) = -33, f(n) = f(n - 1) + 5$				
<i>n</i>	<i>f(n)</i>													
1														
2														
3														

ANSWER KEY

1	$\frac{5}{9}$	2	17, 14, 11, 8, 5, 2	3	$\frac{21}{2}, \frac{21}{8}, \frac{21}{32}$
4	$\frac{1}{2}, 1, \frac{3}{2}$	5	-2	6	$\frac{2}{3}, -2, 6, -18, 54$
7	-64	8	11, 31, 51	9	-2, 4, -8, -16, -32, 64, -128
10	$-\frac{1}{4}, -\frac{1}{2}, -1, -2$	11	3072	12	8
13	$-6, 2, -\frac{2}{3}, \frac{2}{9}, -\frac{2}{27}$	14	2, 1, 0	15	2, -3, 4.5, -6.75, 10.125, -15.1875
16	-26	17	2, 10, 50	18	2