

What is b?

Begin by completing the problem in cell #1. Search for your answer in the remaining cells. Put #2 in the problem blank: #_____. Work that question and proceed in this manner until you complete the circuit.

Find the value of the change factor, b , of the exponential function described. If necessary, round b to 3 decimal places.

<p>Answer: 0.97</p> <p># 1</p> <table border="1" data-bbox="256 449 652 562"> <thead> <tr> <th>t</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>8</td> <td>12</td> <td>18</td> <td></td> <td></td> </tr> </tbody> </table>	t	0	1	2	3	4	P	8	12	18			<p>Answer: 1.06</p> <p>#_____ (2, 1714) & (4, 1836)</p>												
t	0	1	2	3	4																				
P	8	12	18																						
<p>Answer: 1.185</p> <p>#_____</p> <table border="1" data-bbox="261 793 363 1108"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>3</td> </tr> <tr> <td>1</td> <td>6</td> </tr> <tr> <td>2</td> <td>12</td> </tr> <tr> <td>3</td> <td>24</td> </tr> <tr> <td>4</td> <td>48</td> </tr> </tbody> </table>	x	y	0	3	1	6	2	12	3	24	4	48	<p>Answer: 1.197</p> <p>#_____</p> <table border="1" data-bbox="954 785 1068 1100"> <thead> <tr> <th>p</th> <th>R</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>405</td> </tr> <tr> <td>1</td> <td>135</td> </tr> <tr> <td>2</td> <td>45</td> </tr> <tr> <td>3</td> <td>15</td> </tr> <tr> <td>4</td> <td>5</td> </tr> </tbody> </table>	p	R	0	405	1	135	2	45	3	15	4	5
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<p>Answer: 0.984</p> <p>#_____ The cost of tuition is increasing by 6% each year.</p>	<p>Answer: 2</p> <p>#_____ Greenhouse gases have been rising by 0.4% each year since 1960.</p>																								
<p>Answer: 0.8</p> <p>#_____ (1, 45) & (5, 0.00142)</p>	<p>Answer: 1.5</p> <p>#_____</p> <table border="1" data-bbox="954 1478 1398 1591"> <thead> <tr> <th>x</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>100</td> <td>105</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	x	0	1	2	3	4	Q	100	105															
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Q	100	105																							
<p>Answer: 1/3 or 0.333</p> <p>#_____ The value of the car is depreciating at a rate of 12% per year.</p>	<p>Answer: 1.1</p> <p>#_____ The fish population in a local stream is decreasing by 3% each year.</p>																								

Answer: 1.25

#_____ (1, 10,665) & (6, 24,920)

Answer: 1.021

#_____

t	0	1	2	3
$f(t)$	12	19.2	30.72	49.15

Answer: 0.85

#_____

t	0	1	2	3	4
C	10		6.4		

Answer: 1.004

#_____ (2, 174) & (5, 166)

Answer: 1.05

#_____ An antique car worth \$32,000 and its value increases by 1.2% each year.

Answer: 1.035

#_____

n	0	1	2	3	4
B	200			266.2	

Answer: 0.88

#_____

t	0	1	2	3
$g(t)$	16	13.6	11.56	9.83

Answer: 1.012

#_____ (2, 7) & (5, 12)

Answer: 0.075

#_____ The balance in a savings account increases by 2.1% each year.

Answer: 1.6

#_____

n	0	1	2	3	4
B	40		62.5		