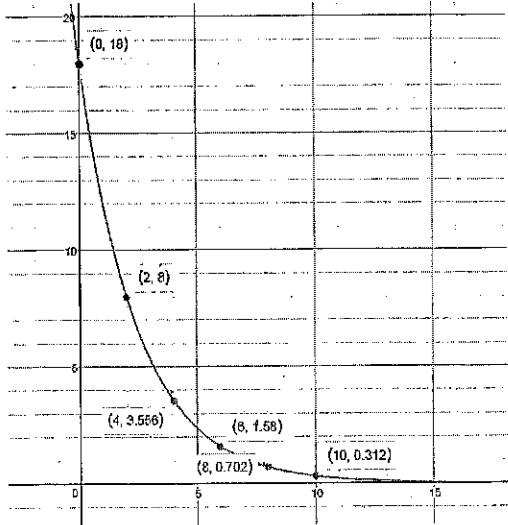


Questions	Notes										
<p>I can write an exponential equation from:</p> <p>1. A table</p> <table border="1" data-bbox="99 310 769 445"> <tr> <td>x</td> <td>0</td> <td>2</td> <td>4</td> <td>6</td> </tr> <tr> <td>y</td> <td>4</td> <td>12</td> <td>36</td> <td>108</td> </tr> </table> <p>2. A graph</p>  <p>3. A description:</p> <p>a. \$10000 is invested in a fund that pays 5% interest every year.</p> <p>b. A 400 mg dose of ibuprofen is metabolized 55 percent every 2 hours.</p> <p style="text-align: center;"><math>100 - 55 = 45</math></p>	x	0	2	4	6	y	4	12	36	108	<p>Use initial value (<math>x=0</math>) as <math>b</math>, divide <math>y</math>-values to find <math>m</math>, use run (<math>x</math>-values) in exponent.</p> <p>1) <math>y = 4(3)^{x/2}</math></p> <p>2) <math>y = 18(4/9)^{x/2}</math></p> <p>3) a) <math>y = 10,000(1 + .05)^x</math></p> <p>b) <math>y = 400(.45)^{x/2}</math></p>
x	0	2	4	6							
y	4	12	36	108							
<p>I can translate between exponential and logarithmic forms.</p> <p>1. Write <math>y = 4^x</math> in logarithmic form.</p> <p>2. Write <math>y = \log_3 x</math> in exponential form.</p>	<p>Switch <math>x</math> &amp; <math>y</math> but keep the base the same.</p> <p>1) <math>y = \log_4 x</math></p> <p>2) <math>y = 3^x</math></p>										
<p>I can find the inverses of exponential and logarithmic functions.</p> <p>1. Find the inverse of <math>f(x) = 2(5^x) - 2</math></p> <p>2. Find the inverse of <math>g(x) = 2\log_8(x + 1)</math></p>	<p>PEMDAS <math>\rightarrow</math> SADMEP</p> <p>1) <math>y = \log_5\left(\frac{x+2}{2}\right)</math></p> <p>2) <math>y = 8^{x/2} - 1</math></p>										

