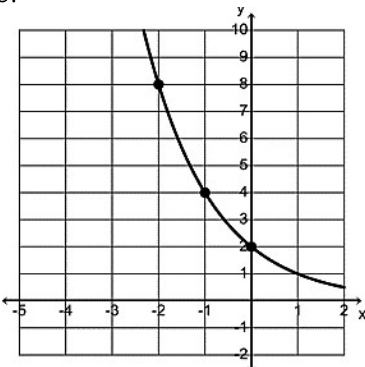
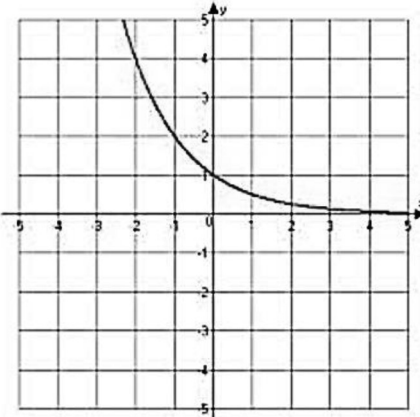
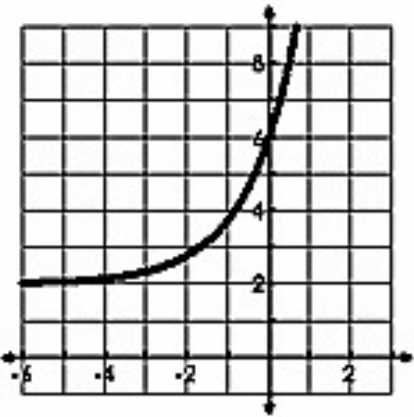


5. Create equations from a graph or table	$y = y\text{-int}(\text{constant ratio})^x$	a. <table border="1" data-bbox="667 117 1065 233"> <thead> <tr> <th>x</th> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </thead> <tbody> <tr> <th>y</th> <td><math>\frac{1}{16}</math></td> <td><math>\frac{1}{4}</math></td> <td>1</td> <td>4</td> <td>16</td> <td>64</td> </tr> </tbody> </table>	x	0	1	2	3	4	5	y	$\frac{1}{16}$	$\frac{1}{4}$	1	4	16	64	b. 
x	0	1	2	3	4	5											
y	$\frac{1}{16}$	$\frac{1}{4}$	1	4	16	64											
6. Determine characteristics of exponential functions.		a.  <p>Domain:</p> <p>Range:</p> <p>x-Intercept:</p> <p>y-intercept:</p> <p>Interval of Increase:</p> <p>Interval of Decrease:</p> <p>Asymptote:</p> <p>End Behavior:</p> <p style="text-align: center;">as <math>x \rightarrow -\infty</math>, <math>f(x) \rightarrow</math> _____</p> <p style="text-align: center;">as <math>x \rightarrow \infty</math>, <math>f(x) \rightarrow</math> _____</p> <p>ROC from -2 to 0:</p>	b.  <p>Domain:</p> <p>Range:</p> <p>x-Intercept:</p> <p>y-intercept:</p> <p>Interval of Increase:</p> <p>Interval of Decrease:</p> <p>Asymptote:</p> <p>End Behavior:</p> <p style="text-align: center;">as <math>x \rightarrow -\infty</math>, <math>f(x) \rightarrow</math> _____</p> <p style="text-align: center;">as <math>x \rightarrow \infty</math>, <math>f(x) \rightarrow</math> _____</p> <p>ROC from -1 to 0:</p>														
7. Determine the y-intercept and asymptote from an equation	You can always substitute 0 in for x to find a y-intercept  Asymptote: $y = k$  No 'k' value, the asymptote is $y = 0$ .	a. Determine the y-intercept and asymptote of the function $y = 3(2)^x$ .	b. Determine the y-intercept and asymptote of the function $y = 4(\frac{1}{2})^x - 2$ .														
8. Average Rate of Change	$m = \frac{y_2 - y_1}{x_2 - x_1}$	a. $f(x) = 2(\frac{1}{5})^x$ for $x = -1$ and $x = 0$	b. $g(x) = \frac{1}{2}(3)^{x+1}$ for $[0, 5]$														