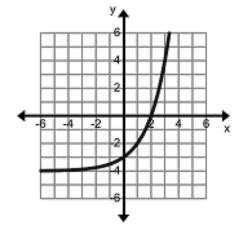
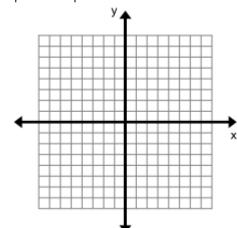
9.2 Average Rate of Change Practice

- 1. What is the exponential rate?
- 2. What is the average rate of change for the function to the right between x=1 and x=3?



- 3. What is the average rate of change for the function to the right between x=0 to x=2?
- 4. Complete the following table and plot the points on the coordinate plane.

Х	$f(x) = 3^x$
-2	
-1	
0	
1	
2	
3	

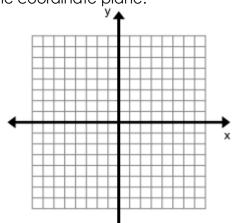


What is the exponential rate?

What is the average rate of change between x=-2 and x=3?

5. Complete the following table and plot the points on the coordinate plane.

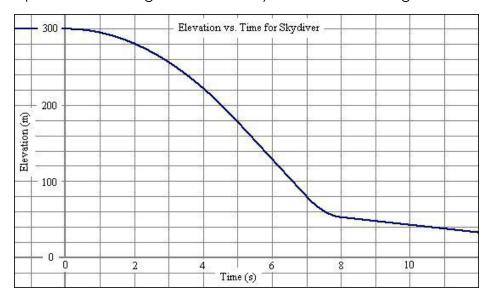
Х	$f(x)=2^x$
-2	
-1	
0	
1	
2	
3	



What is the exponential rate?

What is the average rate of change between x=-2 and x=3?

- 6. Given the function $f(x) = 2^x 2$ what is the exponential rate?
- 7. Given the function $f(x) = 2^x 2$ find the average rate of change from x=0 to x=2.
- 8. Given the function f(x) = 6x + 2 find the average rate of change from x=-5 to x=12.
- 9. Given the function $f(x) = 3^x 5$ find the average rate of change from x=-1 to x=3
- 10. The graph represents how long it takes for a skydiver to reach the ground.



What is the average rate of change for the interval 0 seconds to 6 seconds?

What is the average rate of change for the interval 7 seconds to 11 seconds?

11. The table below shows the percentage of adults in the U.S. who have a cell phone. Find the average rate of change from 2007 to 2011 and interpret its meaning.

Years since 2007	0	1	2	3	4		
% adults who have cell pho	77	81	86	89	92		