Name:	Period:	Due Date: March 18, 2019
(MATH 5)		
	Exponentials Homework #8	

1. The half-life of cough syrup is about 3 hours. If Alexis had to take 10 mL of cough syrup for her sore throat at 12 pm, how much will be left in her system at 6 pm?

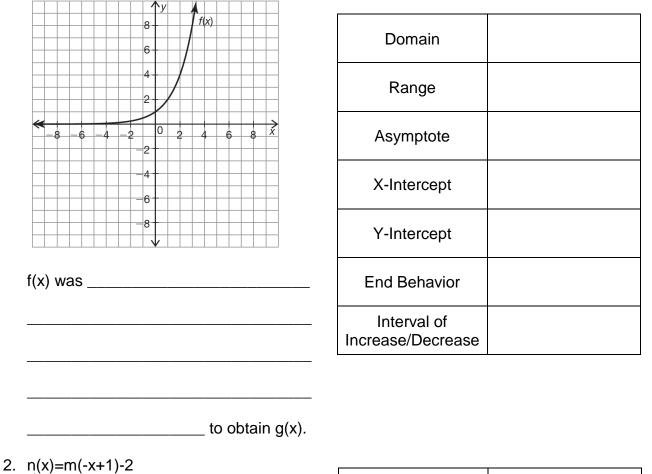
2. Casandra put \$300 into a savings account right after high school. The bank offers 4% interest compounded twice a year. How much will Casandra's bank account have in it after 25 years?

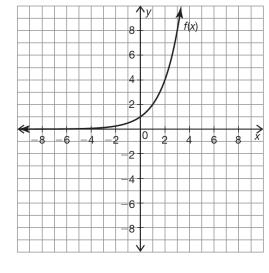
The population of Detroit, Michigan is decreasing at a rate of about 0.75% each year. Detroit's population in 2013 was approximately 700,000.
a. What will be the population in 2018?

b. What was the population in 2008?

Directions: Graph the transformation and describe each of the transformations.

1. $g(x) = -\frac{1}{2}f(x) + 1$





RangeAsymptoteX-InterceptY-InterceptEnd BehaviorInterval of
Increase/Decrease

Domain

m(x) was _____

_____ to obtain n(x).