井门

7.1 Exponential Growth and Decay

	Key	
	100	
Name		

Period

Tell whether the following functions represent Growth or Decay. Give the %. Graph each.

f(x) = 32(0.5)	7	$f(x) = 0.5(1.2^x)$	1.2-1=.2	$f(x) = 0.4(\frac{3}{4})^x$	175=25
Decay	50%	Growth	20%	Decay	25%
$f(x) = (\frac{1}{3})^x$	50%	$f(x) = (1/3)(1.3)^2$		$f(x) = 10(2.7)^x$	2.7-1=1.7
Decay	66.6%	Growth	30%	Grauth	

An acidophilus culture containing 150 bacteria doubles inn population every hour. Write a function representing the bacteria population for every hour. Predict the number of bacteria after 12 hours.

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		$I(\lambda) = 0.4 \left(\frac{1}{4}\right)^{-1}$

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