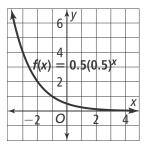
Name _

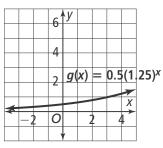


6-1 Reteach to Build Understanding

Key Features of Exponential Functions

1. Fill in the blank for each graph using the terms in the word bank below. Terms can be used multiple times.





Word Bank:

WORU DAIR.			
$f(x) = 0.5(0.5)^x$	<i>x</i> -axis	As $x \to -\infty$, $y \to \infty$	1.25
As $x \to \infty$, $y \to 0$	<i>y</i> ≥ 0	0.5	<i>y</i> -axis
Exponential Decay		Exponential Growth	
$y = ab^{x}$ and $0 < b < 1$		$y = ab^x$ and	
Exponential function:		Exponential function: $g(x) = 0.5(1.25)^x$	
a = 0.5, b =		a = 0.5, b =	
Range: $y \ge 0$		Range:	
Asymptote:		Asymptote: <i>x</i> -axis	
End Behavior:		End Behavior: As $x \to -\infty$, $y \to 0$. As $x \to \infty$, $y \to \infty$.	
The initial amount: 0.5		The initial amount:	
Decay factor:		Growth factor: 1.25	
<i>y</i> -intercept:		<i>y</i> -intercept:	

2. Emma says that for $f(x) = 8,000(0.95)^x$, the exponential growth factor is 0.95 and the *y*-intercept is 8,000. What is her error?