Nan	ne		Date	Class
LESS	SON	Practice A	cw/ Hw	Due Mondo
	43	Exponential Growth and L	Decay	
		exponential growth function to mo		
American I		ual sales for a clothing store are \$270, increasing at a rate of 7% per year; 3 y		y =
2.		population of a school is 2200 and is i rate of 2%; 6 years	ncreasing	$y = \boxed{ \left( 1 +  \right)^{\square}}$ $y \approx $
3.		value of an antique vase is \$200 and rate of 8%; 12 years	is increasing	y = y ≈
		compound interest function to mode ad the balance after the given number	er of years.	/ <u> </u>
4.		,000 invested at a rate of 3% compound ually; 8 years.	$A = \begin{bmatrix} A & A \end{bmatrix}$	(1 + □)
5.		,000 invested at a rate of 6% compoun hthly; 10 years	ided $A = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$	
6.		,000 invested at a rate of 8% compounterly; 5 years	ded .	A ≈
		n exponential decay function to mod value of the function after the giver		
7.		population of a school is 800 and is dependent of a school is 800 and is 800	ecreasing at a rate	of $y =                                  $
8.	The a ra	bird population in a forest is about 230 te of 4% per year; 10 years	00 and decreasing	r-

sample after 56 years.

**9.** The half-life of strontium-90 is approximately 28 years. Find the amount of strontium-90 left from a 10 gram

]<sub>(0.5)</sub>

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	LESSON	Practic		a 1				
<b>V</b>			ntial Grow	. ,	CSF .	,		
			th function to on after the gi			hen		
1.		and the second s	ood restaurant ate of 4% per					
		•						
2.			ool is 800 stude % per year; 6 y	11				
		r	:			\$		
3.			of time, about 7		ea otters			
		<u> </u>						
			function to m		tuation. Th	en		• •
4.	\$50,000 iny monthly; 6		te of 3% comp	ounded				
								,
5.	\$43,000 invannually; 3		te of 5% comp	ounded	·			, , ,
		•	,	•		= ,		
<b>6</b> .	\$65,000 inv quarterly; 1		te of 6% comp	ounded				
, '.								
			/ function to n on after the gi			nen		
7.	The popula 3% per year		n is 2500 and is	s decreasing	at a rate of		·	-
•		· · · · · · · · · · · · · · · · · · ·	,		-	·		
8.	The value of a company's equipment is \$25,00 at a rate of 15% per year; 8 years			\$25,000 and	l decreases	<u> </u>	•	
	•	<b>:.</b>						
9.			1 is approxima t from a 35 gra					
	•	•						