2.9 Logarithmic Expressions

AP Precalculus

Name: _____

CA #1

Directions: Rewrite the following logarithms as exponents.							
1) $\log_4 8 = \frac{3}{2}$	2) $\log \frac{1}{1000} = -3$						
- 2	1000						
Directions: Rewrite the following exponents as logarithms.							
3) $25\overline{2} = 125$	$4) 8^{-1} = 210$						
Directions: WITHOUT using a CALCULATOR	find the value of logarithm.						
5) $\log_3 \frac{1}{81}$	6) $log_2 128$						
Directions: Use a CALCULATOR to find the val	ue of logarithm. Round to three decimal places.						
/) log ₈ 6200	8) log 438						
Directions: For the given data construct a plot us	ing a LOGARITHMIC scale using the given						
bases. Be sure to label your axis and show your n	nath						
9)							
Item Pencil	weight in Milligrams						
Fraser	45 mg						
Calculator	6000 mg						
Backpack	375,000 mg						
/	× ×						
Base 5							
/	×						
Base 10							
	/						
-	-						

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Answers to 1.1 CA #1

1. $4^{\frac{3}{2}} = 8$	2. $10^{-3} = \frac{1}{1000}$	$3. \log_{25} 125 = \frac{3}{2}$	4. $log_6 216 = 3$	54
6. 7	7. 4.199	8. 2.641	9. SEE BELOW	

9.				-		
Item		•		Weight in Mi	illigrams	
Pencil		103	5=1	5 mg	1055 = 0	.699
Eraser		105	5 45 - 2.365	45 mg	105 45 =	1.653
Calculator		104	< 6000 = 51ª	6000 mg	106 600 8-	3.7+8
Backpack		1045	375003	375,000 mg	102 375	000= 5,574
	Ζ.	Pencil	Erhet	CAL	John Bard	(pude
Base 5	50	5' 6	دړه	64 55	54 57 5	

Base 10

