Algebra 1B - Chapter 4 Sept/Oct. 2024

Algebra Keystone Standard for the Weeks Oct 7-18

MODULE 2—Linear Functions and Data Organizations

ASSESSM A1.2.1	ENT ANCHOR Functions			
A	nchor Descriptor		Eligible Content	PA Core Standards
A1.2.1.1	Analyze and/or use patterns or relations.	A1.2.1.1.1	Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.	CC.2.2.8.C.1 CC.2.2.8.C.2 CC.2.2.HS.C.1 CC.2.2.HS.C.2
aph of a function is shown below.		A1.2.1.1.2	Determine whether a relation is a function, given a set of points or a graph.	CC.2.2.HS.C.3 CC.2.4.HS.B.2
		A1.2.1.1.3	Identify the domain or range of a relation (may be presented as ordered pairs, a graph, or a table).	
-6	$\begin{array}{c c} & 2 \\ \hline & -4 & -2 \\ \hline & -2 \\ \end{array}$	<u>https://wl</u>	ote.drcedirect.com/PA/portals/pa	
n value is not in the range of the fi	unction?	Online To	ool Tutorial Keystone Math try	

A. 0

B. 3

Week Oct 14-18 on lesson overview --ALGEBRA 1B

- Monday No classes as teacher inservice
- Tuesday Use Dynamic Classroom example

1 self assessments #1,2 on piecewise function evaluations.

2 self assessments #4-7 on piecewise function evaluations

Assign for homework book pg 232 # 1-4

Wednesday - Put answers from homework into Dynamic Classroom online Practice to check as warmup. Then continue with online practice # 10 describing error on graph, and # 11-14 writing the equations of the piecewise functions. Finish for homework.

Thursday - Use Review handout of the chapter 4 objectives based on pgs 238 Practice Test # 1-8, 10, 12: Complete if needed for homework as preparing for exam on Monday.

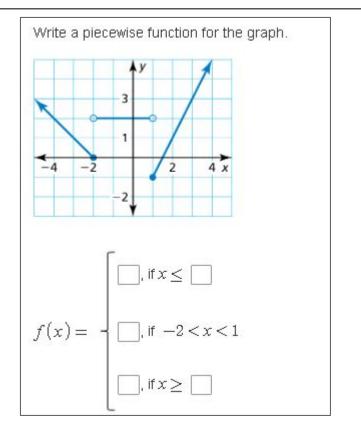
<u>Friday</u> - Check and review practice test. Assign online work in dynamic classroom based on handout to complete.

Tuesday Oct 15

Review DOMAIN and RANGE terms.

FUNCTIONS notation

Evaluate the function when x = -8, -2, 0, $\frac{7}{2}$, and 5. $f(x) = \begin{cases} 3, & \text{if } x < -2 \\ x + 2, & \text{if } -2 \le x \le 5 \\ 4x, & \text{if } x > 5 \end{cases}$ $h(-8) = \square$ $h(-2) = \square$



Thurs/Fri: Practice Test Questions

 Graph y = ^{2x + 4}, if x ≤ -1 ¹ x - 1, if x > -1. Find the domain and range. Write an equation in slope-intercept form of the line with the given characteristics. slope = ²/₃; y-intercept = -7 passes through (0, 6) and (3, -3) parallel to the line y = 3x - 1; passes through (-2, -8) perpendicular to the line y = ¹/₄x - 9; passes through (1, 1) Write an equation in point-slope form of the line with the given characteristics.	 10. The first row of an auditorium has 42 seats. Each row after the first than the row before it. a. Find the number of seats in Row 25. b. Which row has 90 seats? 	rst has three more	seats
 slope = 10; passes through (6, 2) 			
7. passes through (-3, 2) and (6, -1)	 The table shows the amounts x (in dollars) spent on advertising for a festival and the attendances y of the festival for several years. 	Advertising (dollars), x	Yearly attendance,
8. Write a linear function f with the values $f(0) = 6$ and $f(7) = 27$.	 Find an equation of the line of best fit. Interpret the slope and v-intercept. 	500	400
	 What would you expect a scatter plot of the residuals to look like? Explain your reasoning. 	1000	550
			2.50
	c. Is there a causal relationship in the data? Explain.	2000	800
	 c. Is there a causal relationship in the data? Explain. d. Predict the attendance when the advertising cost is \$8900. 	2000 2500	800 650
		1.000	800