Algebra 2 Test 2 Study Guide



Graph each of the given equations. Label and write equations for the horizontal and vertical asymptotes.

- 1. $y = \frac{1}{x+2}$ 2. $y = \frac{1}{x-6}$ 3. $y = \frac{1}{x+8}$ 4. $y = \frac{1}{x-1}$

U=0

Identify all of the equations that represent a linear function. Explain your reasoning for each. Supe is constant

c. y = 0.75x - Exponental

d. 2x - 6y = 12

h
$$y = 2x + 5$$

Thinear form Ax+By = C

Identify all of the tables that represent linear functions. Explain your reasoning for each.

-1 13 -3 16 -5 19 -7

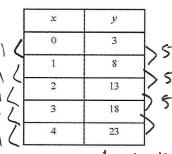
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28

-9

x	T
λ_	У
0	3
1	15
2	75
3	375
4	1,875

	x	y	
1	0	1	\ 2
	1	4	3
	2	7	
: 5	4	13	26
15	5	16	>2
	- 400 (040)	1 - 4	Tr.

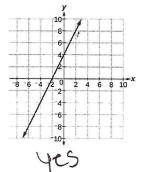


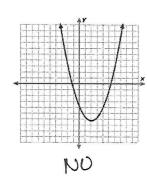
m i's not constant

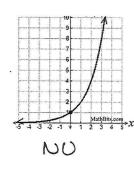
URS mis constant

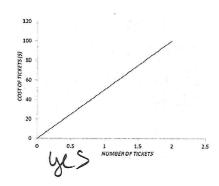
m is constant

Identify all of the graphs that represent linear functions. Explain your reasoning for each.









Identify all of the scenarios that represent linear functions. Explain your reasoning for each.

- a. Buddy can make 10 etch-a-sketches every hour. The input is time and the output is total number of etch-a-sketches made. YES. He makes the same every how
- b. Seymour is growing a plant starting with 1 branch. Every 2 weeks the number of branches $\mathcal{O}^{\triangleright}$ doubles. The input is the number of weeks and the output is the total number of branches.
 - c. Ricky-Bobby can drink 2 cans of Mountain Dew every hour. The input is hours and the output is
 - d. Joanie grows a population of bacteria that triples every 24 hours. The input is hours and the output is total population.