Name:

Franci Adjangba

Perm Number:

5894506

1) According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?

$$3 \cdot 4^{2x-3} = 9$$

$$(2\times -3.1cg(4)) \circ 3 = 9+3$$

 $(3\times -3.1cg(4)) \circ 3 = 9+3$
 $(3\times -3.1cg(4)) \circ 3 = 12$

$$2 \times (\log(4)) = 3$$

$$\frac{(c \times (\log(4)) = 12)}{(\log(4))}$$

$$\frac{(\log(4))}{(\log(4))}$$



4) Your friend Brian is taking a business class this summer and wants to use his skills to start a hot dog stand. He tells you that if he charges p dollars for a hot dog, he can find an equation for the total number of hot dogs he would sell, and use it to compute his total revenue from selling all those hot dogs. Let R(p) represent the total revenue of the hot dog stand (in dollars), if p is the price of a hot dog. What is the interpretation of R(5) = 200, R'(5) = -10, in words?

if Brian sens not deas for \$5 than he would selle 200

Name:

Rhyanne

Aposto

Perm Number:

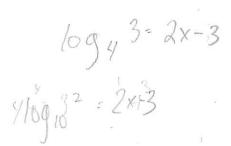
1) According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?

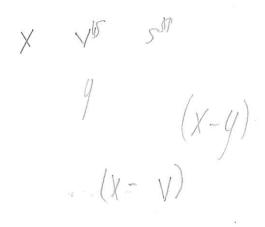
1.26 every 2 days

2) Solve the below equation for x.

$$3 \cdot 4^{2x-3} = 9$$

109 43=2x-3





 $y = \frac{\left(X - Y(X)\right)}{S}$

4) Your friend Brian is taking a business class this summer and wants to use his skills to start a hot dog stand. He tells you that if he charges p dollars for a hot dog, he can find an equation for the total number of hot dogs he would sell, and use it to compute his total revenue from selling all those hot dogs. Let R(p) represent the total revenue of the hot dog stand (in dollars), if p is the price of a hot dog. What is the interpretation of R(5) = 200, R'(5) = -10, in words?

If Brian charges 5 for a holdog then his total revenue is \$200, and if Brian's total revenue was 5 then the one charged \$10.

Name:

Tonglin Wa

Perm Number:

566 8660

5 (1) According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?

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FCF			-		
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	756				
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		10	у, з	N	3
3.	1.58.76		1.26 = 103	Σ	log 1-262 = log 3
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	= (.58/6 *1	.26 =14	109 1.26 = 10910	6).	1 log1.26 = 3 log(3)
5.		N	h		2
6. 1.26×1.26×1.	26	·26= 1	$\frac{1}{2} = \frac{3}{\log(1.26)}$		n 31-9(3)
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		Xx1.26 =	4	-6109	(number of reported cares)
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2) a 1 41	1 1	2 1096-26)	$2 \cdot n = \frac{2 \log (k^3)}{(o g c (\cdot 26))}$	_	
Z) Solve th	e below equation f		$4^{2x-3} = 9$	2	109(1)
		3 ·	$4^{2x-3} = 9$	- I	log (1)
					(1.26)
			$4^{2x-3} = 3$		
			= 3		
		1.	24. 2x-3	. 30	
		8.	29 (4 2x-3) = log	(5)	
		($2x-3) = \frac{\log C}{\log C}$	3)	
			$(-3) = \frac{1}{\sqrt{a}}$	(h.)	
			(091	4)	
			X = 109	(3)	1-0(3)+ 6(094)
			X = (09	(4) T3	= 19(1), 9 - 1
					= log(3)+ 6/09(4)
				2,	

$$y = \frac{\log(3) + 3\log(4)}{2\log(4)}$$

V vdollars

S sdollars

$$Vy + sa = t x$$
 $sa = x - vy$
 $a = \frac{x - vy}{s}$

$$y = \frac{x - vy}{5}$$

4) Your friend Brian is taking a business class this summer and wants to use his skills to start a hot dog stand. He tells you that if he charges p dollars for a hot dog, he can find an equation for the total number of hot dogs he would sell, and use it to compute his total revenue from selling all those hot dogs. Let R(p) represent the total revenue of the hot dog stand (in dollars), if p is the price of a hot dog. What is the interpretation of R(5) = 200, R'(5) = -10, in words?

When Brian prices a hot dog at \$5, he can set get 4 200 as the total vevenue of the hot dog stand.

when Brian prices a hot dog at \$5, every extra
increase in price of hot dog would lead to exa extra
to dollar loss in of his revenue per unit.

Name:

Christian Perez

Perm Number:

1987662

1) According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?

Heeps 91.26 every 2 days 2 [1.76]. 63 every day

2) Solve the below equation for x.

 $3 \cdot 4^{2x-3} = 9$

log(3.42x-3) = log(9) log(3)+(2x-3)log(4)=10g(9) log(3) + 2x log(4)-3log(4)=log(9) 2xlog(4)=log(9)-log(3)+3log(4) 2/09(4) 2 69 (4)

 $2 \log(9) - \log(3) + 3 \log(4)$ $2 \log(4)$ $x = \log(9/3) + 3 \log(4)$ 2 69(4)

$$x = 4v + ns$$

$$x = 4v + ns$$

$$y = \frac{\chi}{\sqrt{+ N5}}$$

4) Your friend Brian is taking a business class this summer and wants to use his skills to start a hot dog stand. He tells you that if he charges p dollars for a hot dog, he can find an equation for the total number of hot dogs he would sell, and use it to compute his total revenue from selling all those hot dogs. Let R(p) represent the total revenue of the hot dog stand (in dollars), if p is the price of a hot dog. What is the interpretation of R(5) = 200, R'(5) = -10, in words?

P dollars per hot dog. P(p) = total revenue

Brian's first function, \$P(5)=200 represents what the revenue (200) would be if Brian charged 5 per hot dog. So his 2nd function, \$P'(5) = -10 represents how the price of the hot dog affects his revenue, with -10 representing the cost of selling the hot dog.

R= P+C

Name:

QiXUANHE

Perm Number:

3666948

1) According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?

$$1.26^{\times} = 4.$$

$$X = \frac{2 \log(2)}{109(1.25)} \approx 5.99. \quad 6 \times 2 = 12$$

12

$$3 \cdot 4^{2x-3} = 9$$

$$3 \cdot 4^{2X-3} = \frac{9}{3}$$

$$4^{2X-3} = 3$$

$$= 2(2X - 3) \log(4) = \log(3)$$

$$X = \frac{\log(192)}{4\log(2)}$$

$$y = \frac{109(192)}{4109(2)} =$$

$$\gamma = \frac{\gamma - v \cdot \gamma}{s}$$

$$y = \frac{\chi - v \cdot \gamma}{\varsigma}$$

4) Your friend Brian is taking a business class this summer and wants to use his skills to start a hot dog stand. He tells you that if he charges p dollars for a hot dog, he can find an equation for the total number of hot dogs he would sell, and use it to compute his total revenue from selling all those hot dogs. Let R(p) represent the total revenue of the hot dog stand (in dollars), if p is the price of a hot dog. What is the interpretation of R(5) = 200, R'(5) = -10, in words?

Name:

Anthony Zendejas

Perm Number:

4233865

1) According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?

126% every 2 days

Reported: x 1.26 every 2days

days until avad?

7 days

$$3 \times 4 = 9$$

$$4 = 9$$

$$4 = 9$$

$$7x-3 = Log(9)$$

$$Log(4)$$

$$Z = \left(\frac{\log(9)}{\log(4)} + 3\right).$$

$$y = \left(\frac{203(9)}{203(9)} + 3\right)$$

$$x > 4v + 4s$$

$$x = y(v) + 4s$$

$$y = \begin{array}{c|c} x - s \\ \hline \end{array}$$

4) Your friend Brian is taking a business class this summer and wants to use his skills to start a hot dog stand. He tells you that if he charges p dollars for a hot dog, he can find an equation for the total number of hot dogs he would sell, and use it to compute his total revenue from selling all those hot dogs. Let R(p) represent the total revenue of the hot dog stand (in dollars), if p is the price of a hot dog. What is the interpretation of R(5) = 200, R'(5) = -10, in words?

Profit and would have to charge &

Name:

yesenia Gil

Perm Number:

5005103

1,26 days

1) According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?

$$1.76 \times 7 \text{ days}$$

$$4x = 1.76 \times 17.76$$

$$2\left(\frac{4}{1.76}\right) \times 2\left(\frac{1.26}{1.76}\right) \times 1.76 \times 4$$

$$\frac{3 \cdot 4^{2x-3} = 9}{3} = 3$$

$$4^{2x-3} = 3$$

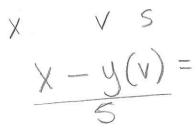
$$(2x-3) Log(4) = Log(3)$$

$$2x Log(4) - 3Log(4) = Log(3)$$

$$Log(3) + 3Log(4)$$

$$2 Log(4)$$

$$y = \frac{Log(3) + 3Log(4)}{2 Log(4)}$$



$$y = \left[\begin{array}{c} \left(\chi - y(v)\right) \\ \end{array}\right]$$

4) Your friend Brian is taking a business class this summer and wants to use his skills to start a hot dog stand. He tells you that if he charges p dollars for a hot dog, he can find an equation for the total number of hot dogs he would sell, and use it to compute his total revenue from selling all those hot dogs. Let R(p) represent the total revenue of the hot dog stand (in dollars), if p is the price of a hot dog. What is the interpretation of R(5) = 200, R'(5) = -10, in words?

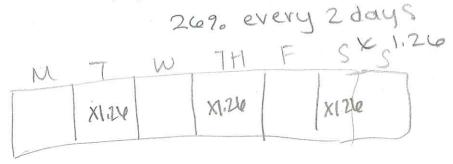
Name:

Breanna Flores

Perm Number:

4283842

1) According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?



3

2) Solve the below equation for x.

$$10g (3.4^{2x-3} = 9)$$

$$10g (3.4^{2x-3}) = 10g (9)$$

$$2x-3 \log(4) + 10g (3) = 10g (9) - 10g (3)$$

$$2x-3 \log(4) = 10g (9) - 10g (3)$$

$$10g (4)$$

$$2x-3 = 10g (9) - 10g (3)$$

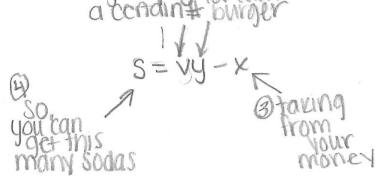
$$10g (4)$$

$$10g (4)$$

ax a

$$y = \left(\frac{\text{Clog(a)} - \log(3)}{\log(4)}\right) \div 2$$

x-v=9y-



4) Your friend Brian is taking a business class this summer and wants to use his skills to start a hot dog stand. He tells you that if he charges p dollars for a hot dog, he can find an equation for the total number of hot dogs he would sell, and use it to compute his total revenue from selling all those hot dogs. Let R(p) represent the total revenue of the hot dog stand (in dollars), if p is the price of a hot dog. What is the interpretation of R(5) = 200, R'(5) = -10, in words?

R(5)=200 means if Brian charges 5 dollars for a notdog rewill make 200 dollars in revenue. R'(5) = -10 means for every 5 dollar notdog he is losing 10 dollars of total revenue.

Name:

Ebony Negrete

Perm Number:

5705215

1) According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?

$$3 \cdot 4^{2x-3} = 9$$

$$109 (42x-3) = 109 (9)$$

 $(2x-3) 109 (4) = 109 9$
 $2x 109 (4) - 3109 (4) = 109 (9)$
 $x = 109 (9) + 3109 (4)$
 $2109 (4)$

$$y = \frac{109(9) + 3109(4)}{2109(4)}$$

$$X = V + S$$

$$X = VY + S$$

$$\frac{X - S}{V}$$

$$y = \bigvee$$

4) Your friend Brian is taking a business class this summer and wants to use his skills to start a hot dog stand. He tells you that if he charges p dollars for a hot dog, he can find an equation for the total number of hot dogs he would sell, and use it to compute his total revenue from selling all those hot dogs. Let R(p) represent the total revenue of the hot dog stand (in dollars), if p is the price of a hot dog. What is the interpretation of R(5) = 200, R'(5) = -10, in words?

If Brian prices the not dogs at st, hemakes
200 in revenue. At \$5, revenue decreases by 10.

Name:

KERNEKATIE MEGGLE

Perm Number:

816 574-8

1) According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?

$$\begin{array}{ccc}
1.26 & = N \\
7 & = 4N \\
4 & (2^{1.26}) & = N
\end{array}$$

$$4 & (1.26 \log 2) & = N$$

1.26 t N 1.26 t N 1.26 t N 1.26 t t d N 1.26 t t d

Weller In 2

2) Solve the below equation for x.

$$\frac{1}{3} \cdot 4^{2x-3} = 9$$

 $(2x-3) \log 4 = \frac{3}{\log 4}$ $2x - (\frac{1093}{1094} + 3) \frac{1}{2}$ $(\log_4 3 + 3) \frac{1}{2} = x$ $(\log_4 3 + \frac{3}{2} + \frac{3}{2})$

$$y = 10943^{\frac{1}{2}} + \frac{3}{2}$$

4) Your friend Brian is taking a business class this summer and wants to use his skills to start a hot dog stand. He tells you that if he charges p dollars for a hot dog, he can find an equation for the total number of hot dogs he would sell, and use it to compute his total revenue from selling all those hot dogs. Let R(p) represent the total revenue of the hot dog stand (in dollars), if p is the price of a hot dog. What is the interpretation of R(5) = 200, R'(5) = -10, in words?

p=pnie when a not dog costs \$5, 200 not dogs are sold. When the hot dog is the amount of not dogs being sold is decreasing by to not dogs.

When a hot dog is five actions the amount of hot dogs when sold is decreasing by 10.

When a hot dog is five actions price the rate at which hot dogs are being sold is decreasing by 10.

When a not dog is five alchars the total amount of more being made on the not alog stand is 200\$. At this same price being made on the rot alog stand is 200\$. At this same price being made of the Stand is 10ging the money at the rate of \$100 per solle.