

- 27 Rachel and Marc were given the information shown below about the bacteria growing in a Petri dish in their biology class.

Number of Hours, x	1	2	3	4	5	6	7	8	9	10
Number of Bacteria, $B(x)$	220	280	350	440	550	690	860	1070	1340	1680

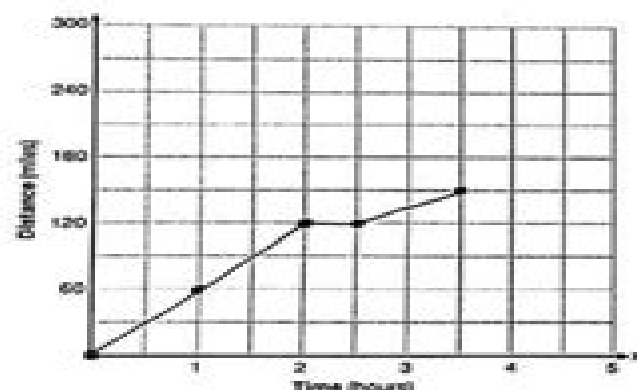
Rachel wants to model this information with a linear function. Marc wants to use an exponential function. Which model is the better choice? Explain why you chose this model.

LinReg: $r^2 = .9299$

ExpReg: $r^2 = .9999$

Exponential $\rightarrow$ higher r^2 represents a better model

- 28 A driver leaves home for a business trip and drives at a constant speed of 60 miles per hour for 2 hours. Her car gets a flat tire, and she spends 30 minutes changing the tire. She resumes driving and drives at 30 miles per hour for the remaining one hour until she reaches her destination. On the set of axes below, draw a graph that models the driver's distance from home.



- 31 A toy rocket is launched from the ground straight upward. The height of the rocket above the ground, in feet, is given by the equation $h(t) = -16t^2 + 64t$, where t is the time in seconds. Determine the domain for this function in the given context. Explain your reasoning.

$0 \leq t \leq 4$ Time & height cannot be negative

- 32 Jackson is starting an exercise program. The first day he will spend 30 minutes on a treadmill. He will increase his time on the treadmill by 2 minutes each day. Write an equation for $T(d)$, the time, in minutes, on the treadmill on day d . Find $T(6)$, the minutes he will spend on the treadmill on day 6.

$d=1 \rightarrow T=30$

$d=2 \rightarrow T=32$

$d=3 \rightarrow T=34$

$d=4 \rightarrow T=36$

$d=5 \rightarrow T=38$

$\star d=6 \rightarrow T=40$

Arithmetic Seq.:

$a_n = a_1 + d(n-1)$

$T = 30 + 2(d-1)$

OR

Lin Reg:

$y = ax + b$

$T = 2d + 28$

- 29 How many real solutions does the equation

$x^2 - 2x + 5 = 0$ have? Justify your answer.

$a=1$
 $b=-2$
 $c=5$

$b^2 - 4ac = (-2)^2 - 4(1)(5) = -16 \rightarrow$

0 real solutions

- 30 The number of carbon atoms in a fossil is given by the function $y = 5100(0.95)^x$, where x represents the number of years since being discovered. What is the percent of change each year? Explain how you arrived at your answer.

$1 - 0.95 = 0.05 \rightarrow 5\% \text{ decay}$

It is 5% decay b/c .95 is .05 below 1

Algebra Regents Answers Explained

LL Leslie



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