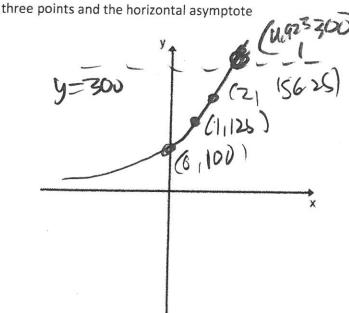
N	а	m	1	е

Formative Assessments basics of Exponential change model hour____

For each set of mathematical model facts answer the related questions below it

Sketch a quick graph of the given model label the first



Mathematical Facts

You are given an initial amount of 100. You have a change factor of 1.25

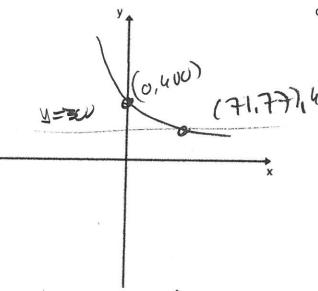
- 3. State the change rate as a percentage 25%
- 4. This is exponential _____ model
 - a. Growth
 - c. Neither
- 5. Determine when your model will reach an amount of 300 Round to three decimal places

1= |b-11= 11.21-11=0.25 x = 4.923

160=1001=100(0x)=25%

For each set of mathematical model facts answer the related questions below it

Sketch a quick graph of the given model label the first three points and the horizontal asymptote



Mathematical Facts

You are given an initial amount of 400. You have a change rate of 0.4%. This is a decay model

6. Build the exponential change model

y=400(0.996)X

- 7. State the change rate as a decimal __OrOOH
- 8. State the change factor _____0.996
- 9. Determine when your model will reach an amount of 300 Round to three decimal places

10/0=0.4% -> 1

Sketch a quick graph of the given model label the first three points and the horizontal asymptote

4=3

Mathematical Facts

You are given an initial amount of 50. You have a change factor of 0.85



- (1, 42) 13) 11. State the change rate as a decimal US
 - 12. State the change rate as a percentage
 - 13. This is exponential _____ model

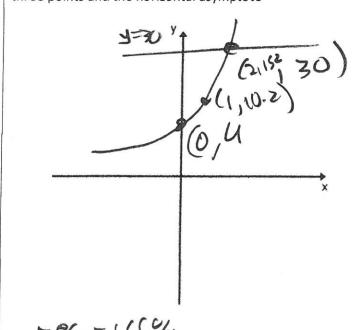


14. Determine when your model will reach an amount of 13 Round to three decimal places



For each set of mathematical model facts answer the related questions below it

Sketch a quick graph of the given model label the first three points and the horizontal asymptote



Mathematical Facts

You are given an initial amount of 4. You have a change rate of 155%. This is a growth model

15. Build the exponential change model

4=4/2,55)X

- 16. State the change rate as a decimal <u>LSS</u>
- 17. State the change factor _______
- 18. Determine when your model will reach an amount of 30 Round to three decimal places

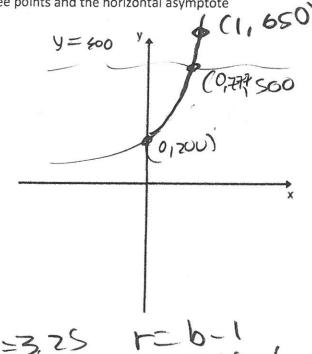
X 2 2,152

N	а	n	า	e	
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Formative Assessments basics of Exponential change model hour

For each set of mathematical model facts answer the related questions below it

Sketch a quick graph of the given model label the first three points and the horizontal asymptote



Mathematical Facts

You are given an initial amount of 200. You have a change factor of 3.25

- 1. Build the exponential change model
- 2. State the change rate as a decimal _________
- 3. State the change rate as a percentage 225%
- 4. This is exponential model a Growth

 - c. Neither
- 5. Determine when your model will reach an amount of 500 Round to three decimal places

x=0,777

For each set of mathematical model facts answer the related questions below it

Sketch a quick graph of the given model label the first three points and the horizontal asymptote

Mathematical Facts

You are given an initial amount of 500. You have a change rate of 0.04%. This is a decay model

6. Build the exponential change model

State the change rate as a decimal _____

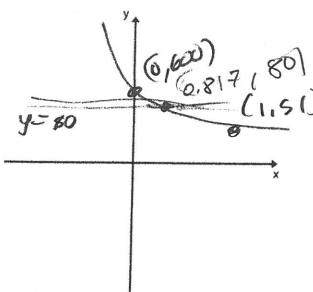
- 8. State the change factor 0.9996
- 9. Determine when your model will reach an amount of 450 Round to three decimal places

~ % =004%

U=460

 $\frac{0.04}{100} = 0.0004 \quad | b = 1 - 0.0004 \quad | \times = 263.349$

Sketch a quick graph of the given model label the first three points and the horizontal asymptote



Mathematical Facts

You are given an initial amount of 600. You have a change factor of 0.085

- 10. Build the exponential change model

 \(\sum \colon = \colon \
- 11. State the change rate as a decimal 6.915
- 12. State the change rate as a percentage
- 13. This is exponential _____ model



c. Neither

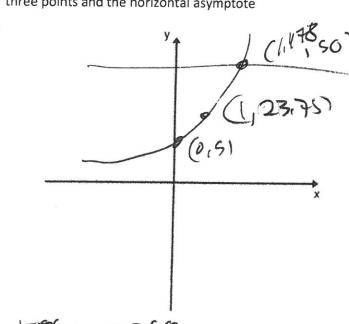
14. Determine when your model will reach an amount of 80 Round to three decimal places

b=0.085 -> 1=1-0.085 X=0.817

r=0.915 r%= 100r=91.5%

For each set of mathematical model facts answer the related questions below it

Sketch a quick graph of the given model label the first three points and the horizontal asymptote



Mathematical Facts

You are given an initial amount of 5. You have a change rate of 375%. This is a growth model

15. Build the exponential change model

16. State the change rate as a decimal 3.75.

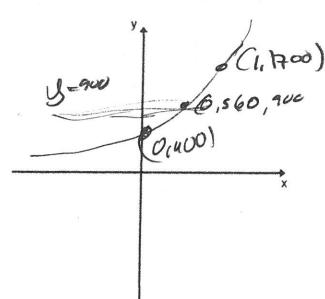
- 17. State the change factor 4.75
- 18. Determine when your model will reach an amount of 50 Round to three decimal places

X \$ 1478

NameFormative Assessments basics of Exponential change model hour

For each set of mathematical model facts answer the related questions below it

Sketch a quick graph of the given model label the first three points and the horizontal asymptote



Mathematical Facts

You are given an initial amount of 400. You have a change factor of 4.25

- 1. Build the exponential change model
- 2. State the change rate as a decimal 325
- 3. State the change rate as a percentage
- 4. This is exponential _____ model a. Growth
 - b. Decay
 - c. Neither
- 5. Determine when your model will reach an Round to three decimal places

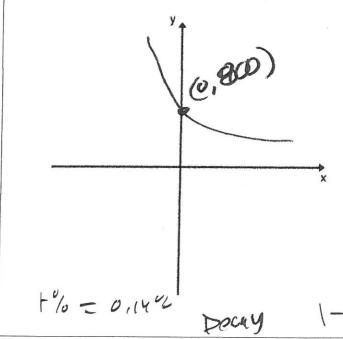
P=4152 L=4152-1

r= 3.25

r% = 1001 = 100(325)

For each set of mathematical model facts answer the related questions below it

Sketch a quick graph of the given model label the first three points and the horizontal asymptote



Mathematical Facts

You are given an initial amount of 800. You have a change rate of 0.14%. This is a decay model

6. Build the exponential change model

y=800(0.9986)×

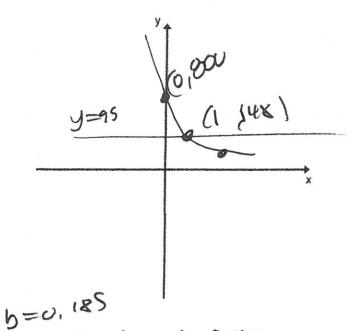
7. State the change rate as a decimal _ cool 4

- 8. State the change factor ___ 0.9986
- 9. Determine when your model will reach an amount of 550 Round to three decimal places

1-0,0014 X = 267.451

1=0,0014

Sketch a quick graph of the given model label the first three points and the horizontal asymptote



Mathematical Facts

You are given an initial amount of 800. You have a change factor of 0.185

10. Build the exponential change model

12. State the change rate as a percentage 81) 2

13. This is exponential _____ model

Growth

14. Determine when your model will reach an amount of 95

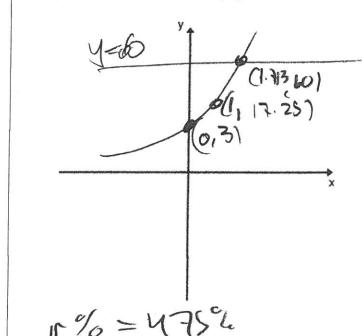
Round to three decimal places

X=1,263

r=1-6=1-0,085 V-6.815 -> 170 = (W(0.415) =

For each set of mathematical model facts answer the related questions below it

Sketch a quick graph of the given model label the first three points and the horizontal asymptote



Mathematical Facts

You are given an initial amount of 3. You have a change rate of 475%. This is a growth model

15. Build the exponential change model

4=3(5,75)×

16. State the change rate as a decimal 4,75

18. Determine when your model will reach an amount of 60 Round to three decimal places