Kahoot Review

Day 1 –

Exploring Exponential Functions

An exponential function is BEST used to describe

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▲ math.

◆ an algebraic relationship.

● growth and decay.

■ science.

An exponential function is of the form

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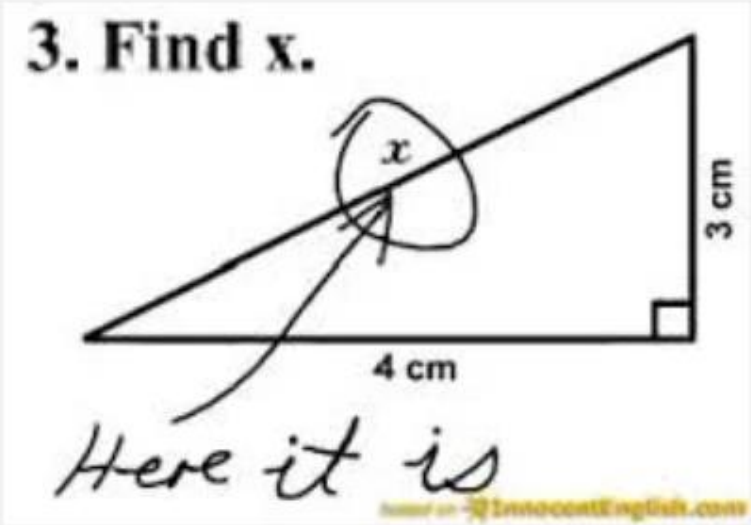
$y = ab^x$



▲ $y = mx + b$

◆ $y = ax^2 + bx + c$

● $y = a(b)^x$

■ $y = x$

A graph that increases very slowly at first and then **exponentially** represents which function?

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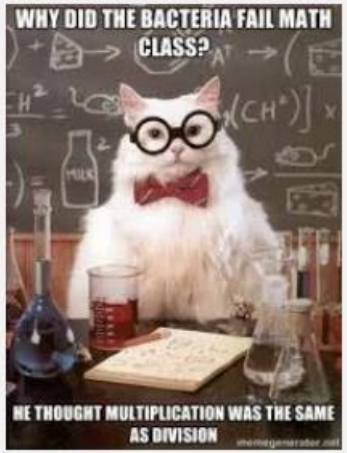

▲ Exponential decay

◆ Exponential growth

● Quadratic

■ Linear

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The a value in $y = a(b)^x$ represents

▲ the slope.

◆ the y-intercept.

● the mass confusion in my brain.

■ the first letter of the alphabet!

If the y-intercept of the exponential function is (0, 5), then what is the a value?

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- ▲ 1
- ◆ 2
- ● 5
- ■ 10

In the function $y = 2(50)^x$, what is the y-intercept?

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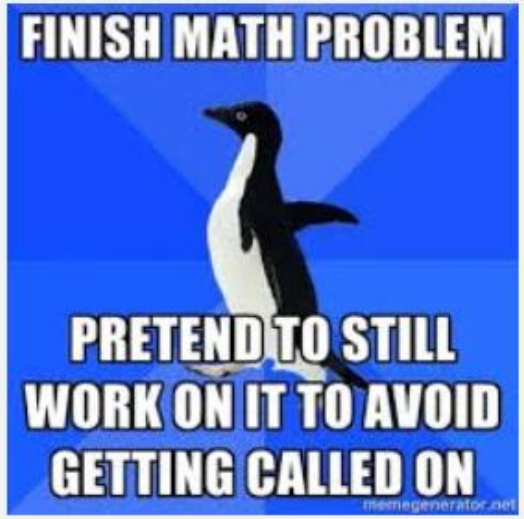
$y = a(b)^x$

$y = 2(50)^x$

$a = 2 \quad b = 50$



▲ 1

◆ 2 ✓

● 10

■ 50

Exponential decay means that the graph

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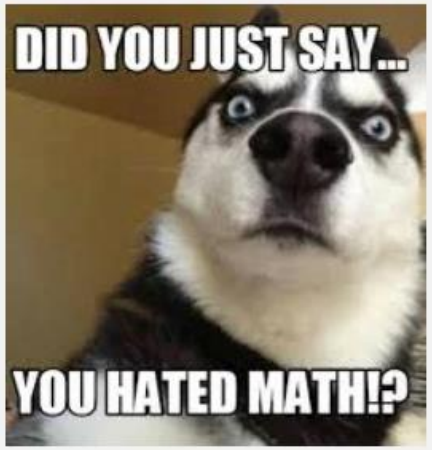

▲ is decreasing rapidly at first.

◆ is increasing rapidly at first.

● is decreasing at a steady rate.

■ is decreasing and then increasing.

Linear

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In exponential growth, you must _____ the same number to get the next function value.

- ▲ add
- ◆ subtract
- ● multiply by
- ■ divide by

Given $f(x) = 2(3)^x$, the function values are increasing by a factor of

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▲ 2

◆ 3

● 1/2

■ 1/3

$F(x)= 2(1/2)^x$ is exponential _____ because the common ratio is _____.

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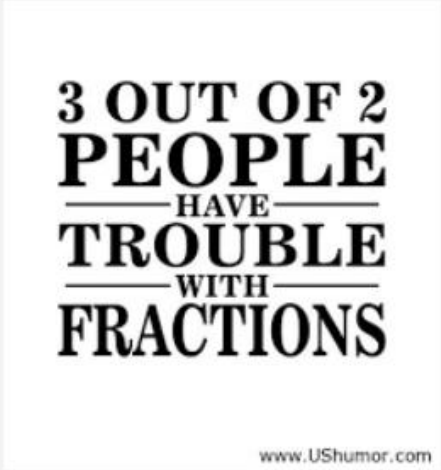
$f(x) = 2\left(\frac{1}{2}\right)^x$

a / $b < 1$

decay



- ▲ growth; 2
- ◆ decay; 2
- ● growth; 1/2
- ■ decay; 1/2 ✓