Review Kahoot for Unit 5 part 1

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| What is the logarithmic form of 210= 1024? | Which function is an example of exponential growth?

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| 1. a(x)= 0.5(1.2)x
 | 1. d(x)= 5(0.2)2
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| 1. d(x)= 5(0.2)2
 | 1. c(x)= 2.4(x)0.86
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| Which is the largest x?

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| 1. log2 32=x
 | 1. log5 x=3
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| 1. x10=1
 | 1. logx 2187=7
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 | Solve 44x- 5= 83x- 4. |
| What is the logarithmic form of 63= 216? | If f(x) =a(r)x is an example of exponential growth, what must be true of r? |
| Which of the following functions is an example of exponential decay?

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| 1. d(x)=log0.5x
 | 1. a(x)=0.5(1.2)x
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| 1. b(x)=2.4(0.86)x
 | 1. c(x)=0.5(x)0.9
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 | Write an exponential function.In 2000, the world population was 6.08 billion and was increasing at a rate of 1.21% each year. |
| Evaluate (Solve)$$log\_{8}512=x$$ | Solve$$log\_{6}216=x$$ |
| Solve for x$$4\left(10^{x}\right)=5320$$ | Solve for x$$log\_{x}16=-4$$ |
| Solve for x$$10^{x}=20$$ | Solve for x$$log\_{11}11=x$$ |
| You have bought a car for $38,000. The value of the car decreases in value by 8% each year. What is the value of the car after 7 years? | Write an expression shows the value of $2500 investment after it has grown by 4.5% per year for 12 years? Now how much is the value of the investment? |
| What is the asymptote of the function? | What is the range for the given exponential function? |
| You have inherited land that was purchased for $30,000 in 2000. The value of the land increased by about 5% per year. What is the approximate value of the land in the year 2017?  | The growth of a company can be modeled by $y=271(1.06)^{x}$ where x is the number of years since 2000. What would be the projected growth of this company in 2016? |
| Identify the asymptote for the function.$$log\_{2}\left(x-1\right)=y$$ | What is the domain, range and asymptote for the given exponential function? |
| Identify the domain for the function.$$log\_{2}\left(x-1\right)=y$$ |