Warm up

Solve

$$3x \pm 5 = 14$$
 $3(3x) \pm 9 \div 3$
 $(x = 3)$

Simplify

$$x^{2} \cdot x^{5} \cdot x^{3}$$
 $2+5+3=10$

7-1: Graphing Exponential Functions

Objectives: I can graph an exponential function from an equation

Does the following table represent exponential behavior? Why or why not?

Exponential Equation

a·b^x

Review: Is it exponential growth or decay?

$$y = \frac{1}{2} (3)^x$$

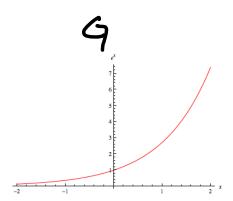
$$y = 3\left(\frac{1}{2}\right)^{3}$$

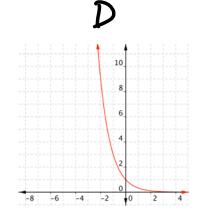
$$y = 5\left(\frac{6}{5}\right)^x$$

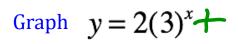
4



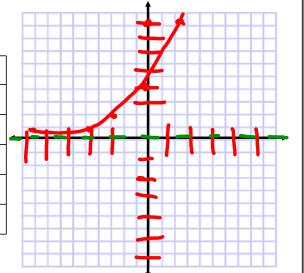
4

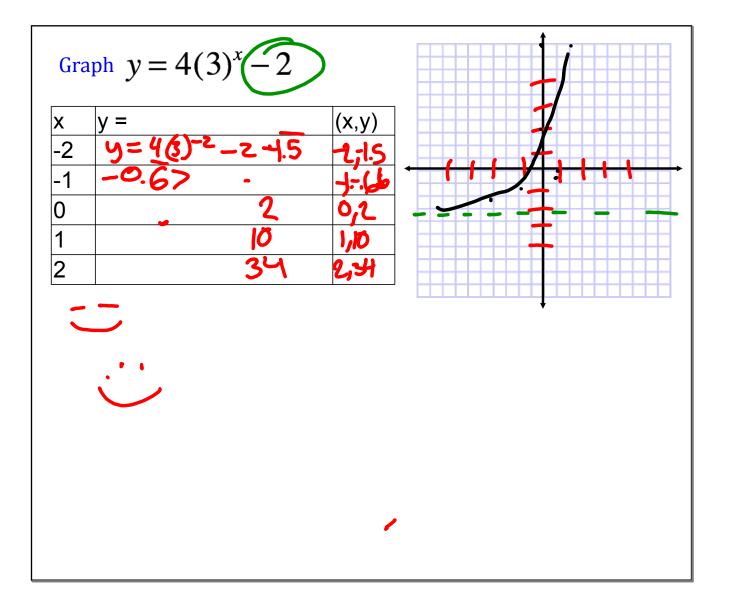


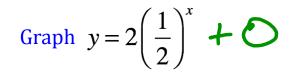




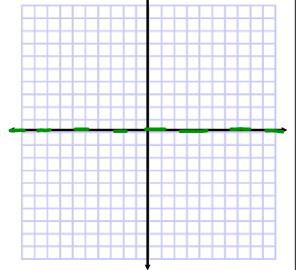
| X | y = | (x,y) |
|----|---------------|-------|
| -2 | y= 2(5) = .22 | |
| -1 | y= 2(3) gg | |
| 0 | y= 2(3) = 2 | |
| 1 | y= z(s)' = 6 | |
| 2 | y= 2(3)2=18 | |

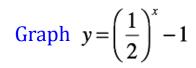






| X | y = | (x,y) |
|----|-----|-------|
| -2 | | |
| -1 | | |
| 0 | | |
| 1 | | |
| 2 | | |





| y = | (x,y) |
|-----|-------|
| | |
| | |
| | |
| | |
| | |
| | y = |

