

C.5 Notes Day 2

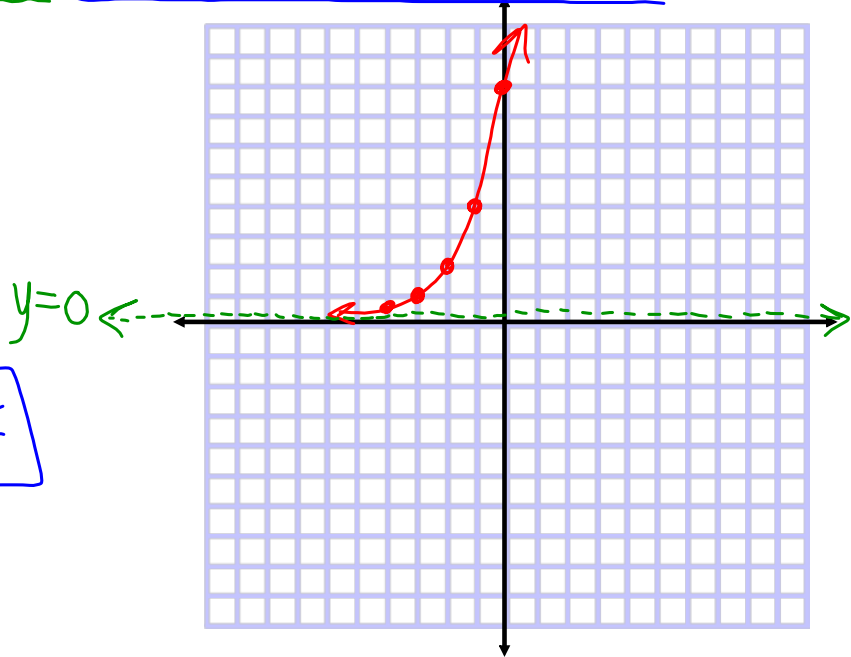
Graph the exponential function. Then describe in words the transformations from the parent function. Then find the horizontal asymptote. Then state the domain and range.

$$y = (2)^{x+3}$$

Left 3

H.A.: $y=0$

D: All real #s
R: $y > 0$



Apr 2-8:24 AM

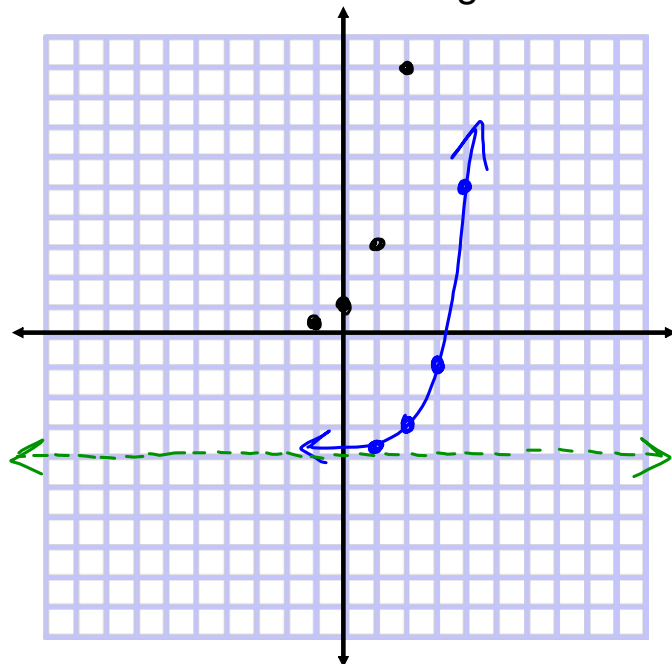
Graph the exponential function. Then describe in words the transformations from the parent function. Then find the horizontal asymptote. Then state the domain and range.

$$y = (3)^{x-2} - 4$$

Right 2, down 4

H.A.: $y=-4$

D: All R
R: $y > -4$



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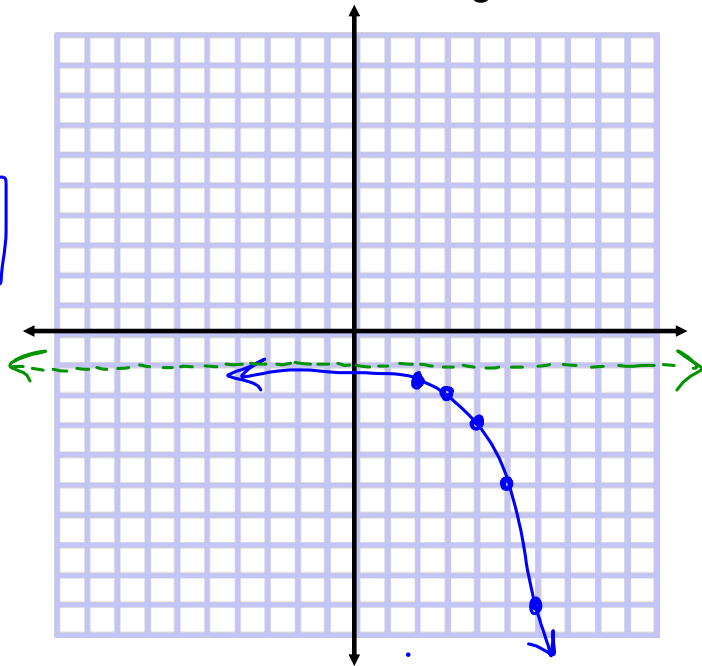
Graph the exponential function. Then describe in words the transformations from the parent function. Then find the horizontal asymptote. Then state the domain and range.

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

Reflect over x-axis,
right 3 and down 1

H.A. $y = -1$

D: All \mathbb{R}
R: $y < -1$



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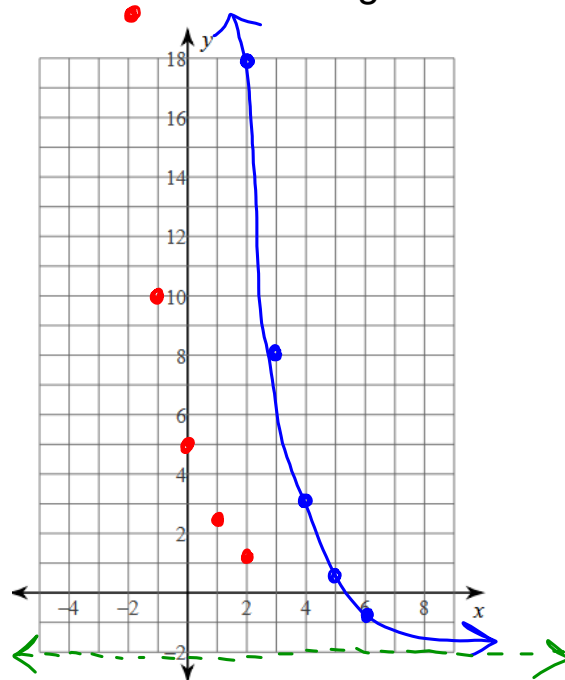
Graph the exponential function. Then describe in words the transformations from the parent function. Then find the horizontal asymptote. Then state the domain and range.

$$y = 5 \left(\frac{1}{2}\right)^{x-4} - 2$$

stretch by 5, right 4,
down 2

H.A. $y = -2$

D: All \mathbb{R} R: $y > -2$



Apr 2-8:24 AM