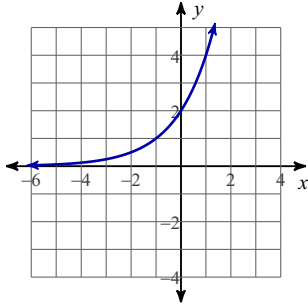


HW #12-2 (Vertically stretched Exponential Function)

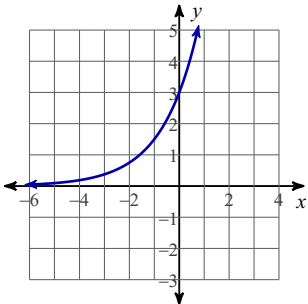
1) Which is the graph of the following function?

$$y = 3 \cdot 2^x$$

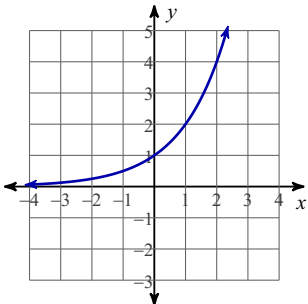
A)



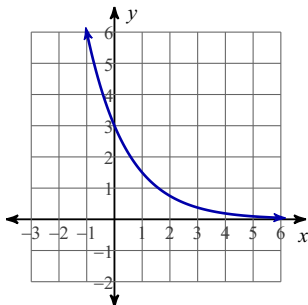
B)



C)



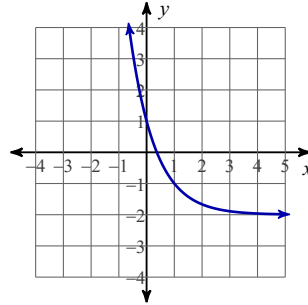
D)



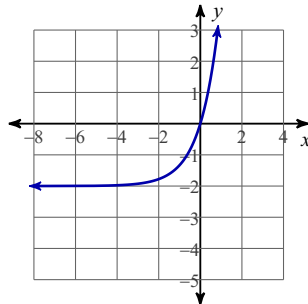
2) Which is the graph of the following function?

$$y = 2 \cdot 3^x - 2$$

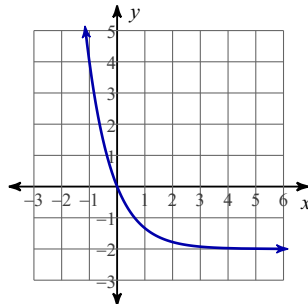
A)



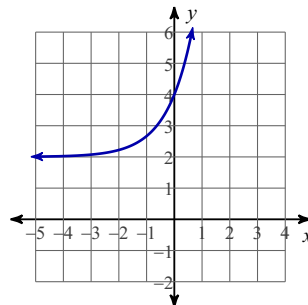
B)



C)



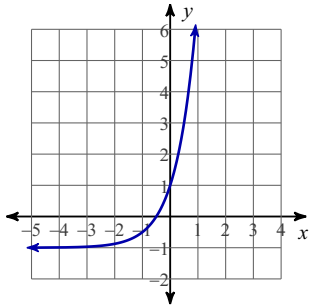
D)



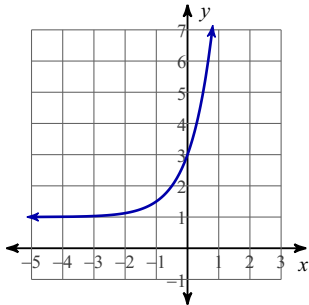
3) Which is the graph of the following function?

$$y = 2 \cdot 4^x + 1$$

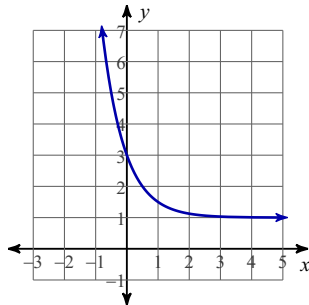
- A) 0
B)



C)



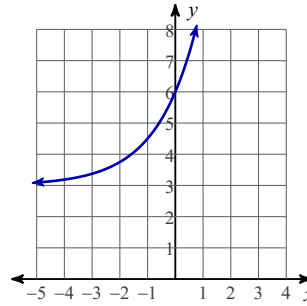
D)



4) Which is the graph of the following function?

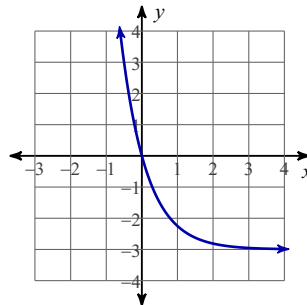
$$y = 3 \cdot \left(\frac{1}{4}\right)^x + 3$$

A)

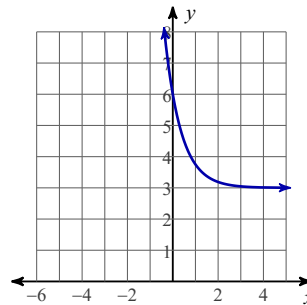


B) 0

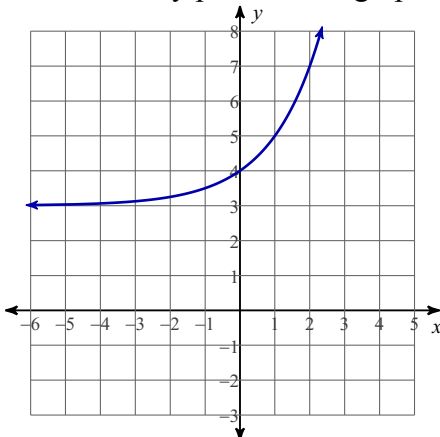
C)



D)

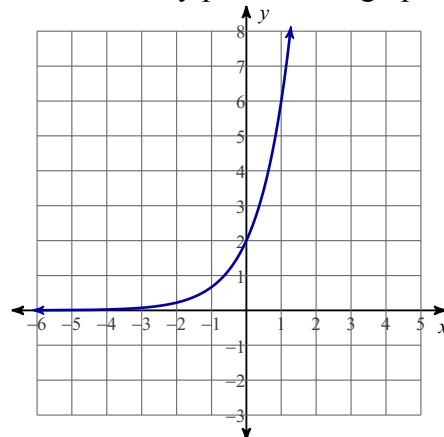


5) What is the equation that has been graphed?
The "nice x-y pair" on the graph is (1, 5).



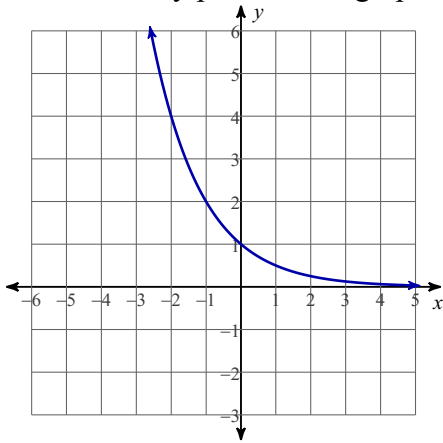
- A) $y = 3^x + 2$ B) $y = 2^x + 2$
C) $y = 3^x - 3$ D) $y = 2^x + 3$

6) What is the equation that has been graphed?
The "nice x-y pair" on the graph is (1, 6).



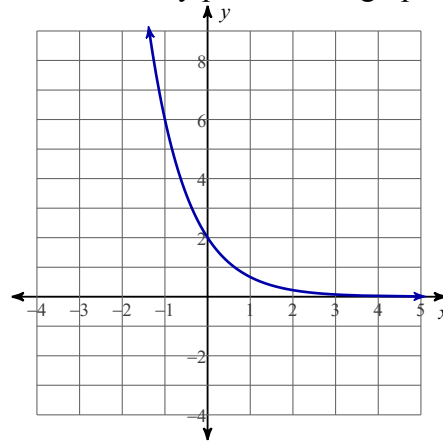
- A) $y = 2 \cdot 3^x + 1$ B) $y = 3 \cdot 3^x$
C) $y = 2 \cdot 3^x$ D) $y = 3 \cdot 2^x$

- 7) What is the equation that has been graphed?
The "nice x-y pair" on the graph is (-1, 4).



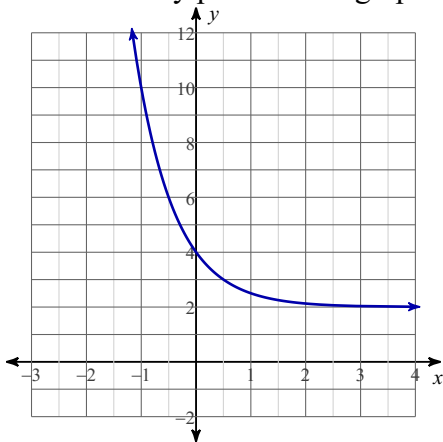
- A) $y = 2^x$ B) $y = 2 \cdot \left(\frac{1}{2}\right)^x$
C) $y = \left(\frac{1}{2}\right)^x$ D) $y = \left(\frac{1}{3}\right)^x$

- 8) What is the equation that has been graphed?
The "nice x-y pair" on the graph is (-1, 6).



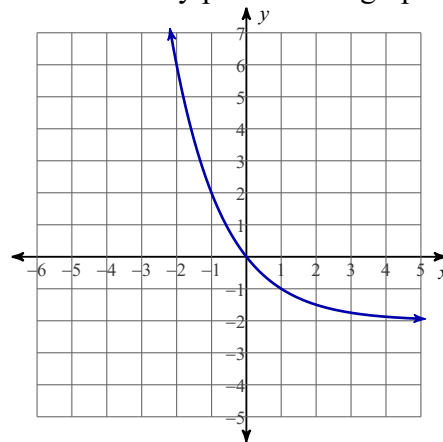
- A) $y = 2 \cdot \left(\frac{1}{2}\right)^x$ B) $y = 2 \cdot \left(\frac{1}{3}\right)^x$
C) $y = \left(\frac{1}{3}\right)^x$ D) $y = 2 \cdot 3^x$

- 9) What is the equation that has been graphed?
The "nice x-y pair" on the graph is (-1, 10).



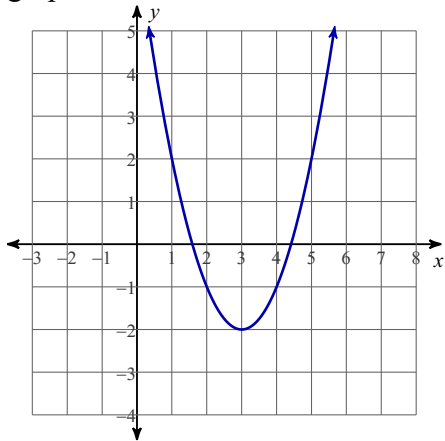
- A) $y = 2 \cdot \left(\frac{1}{5}\right)^x + 2$ B) $y = 2 \cdot \left(\frac{1}{4}\right)^x - 2$
C) $y = 2 \cdot \left(\frac{1}{4}\right)^x + 2$ D) $y = 2 \cdot 4^x + 2$

- 10) What is the equation that has been graphed?
The "nice x-y pair" on the graph is (-1, 6).



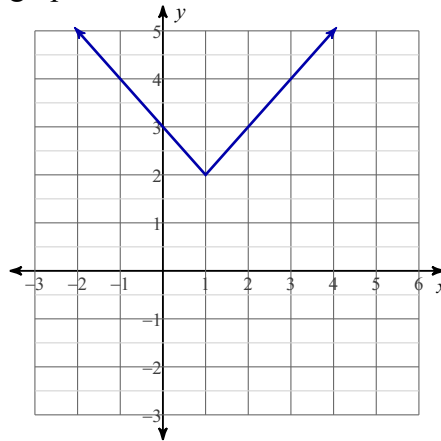
- A) $y = 2 \cdot \left(\frac{1}{4}\right)^x - 2$ B) $y = 2 \cdot 2^x - 2$
C) $y = 2 \cdot \left(\frac{1}{2}\right)^x - 2$ D) $y = 2 \cdot \left(\frac{1}{2}\right)^x + 2$

11) What "family" of function has been graphed?



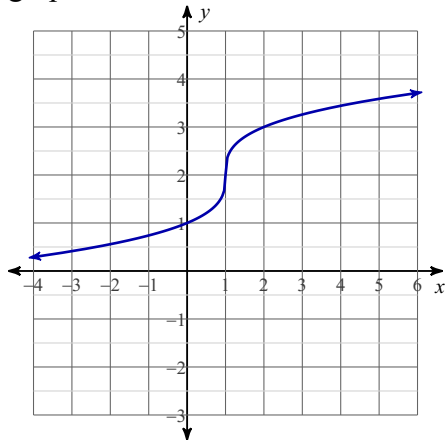
- A) cube
- B) absolute value
- C) Square (Quadratic)
- D) cubed root

12) What "family" of function has been graphed?



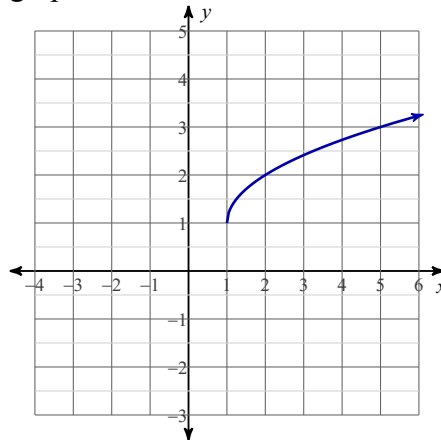
- A) absolute value
- B) exponential
- C) Square (Quadratic)
- D) cubed root

13) What "family" of function has been graphed?



- A) Square (Quadratic)
- B) exponential
- C) square root
- D) cube root

14) What "family" of function has been graphed?



- A) exponential
- B) square root
- C) Square (Quadratic)
- D) cubed root