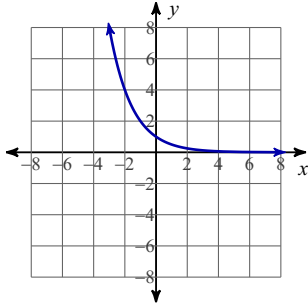


HW #12-1

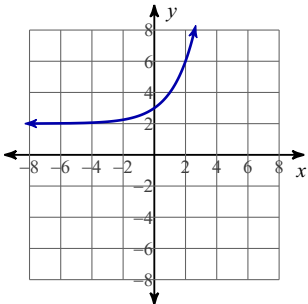
1) Which is the graph of the following function?

$$y = 2^x$$

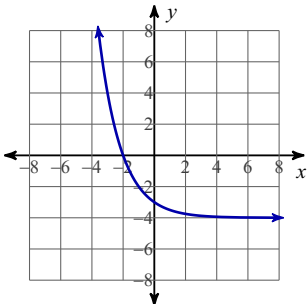
A)



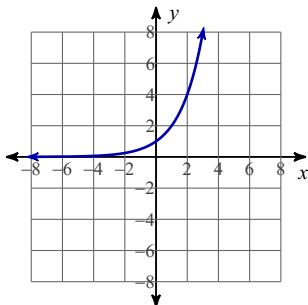
B)



C)



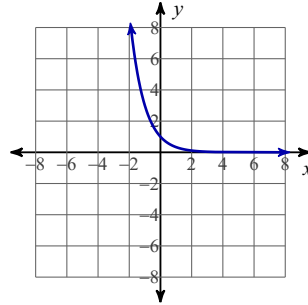
D)



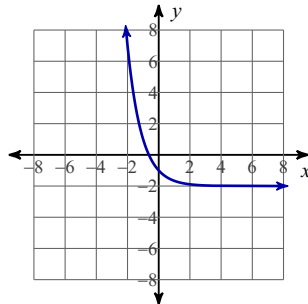
2) Which is the graph of the following function?

$$y = 3^x - 2$$

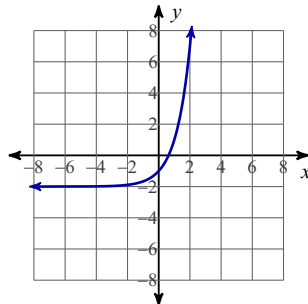
A)



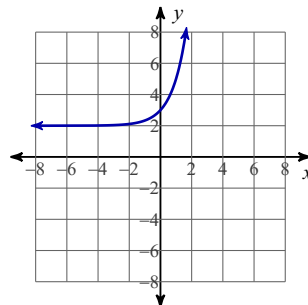
B)



C)



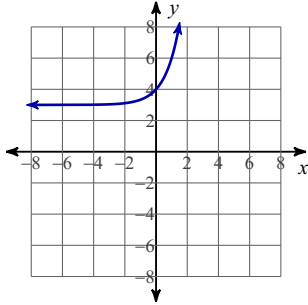
D)



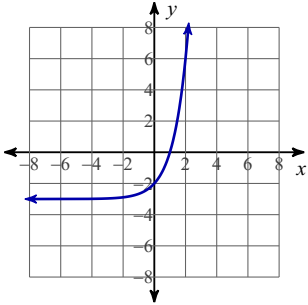
3) Which is the graph of the following function?

$$y = 3^x + 3$$

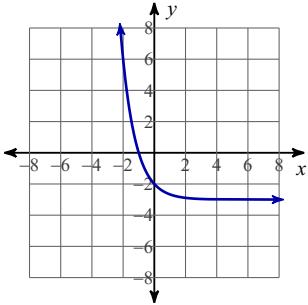
A)



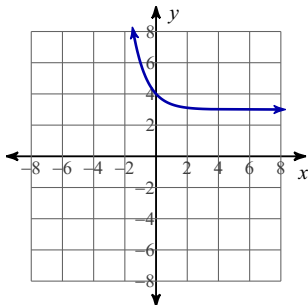
B)



C)



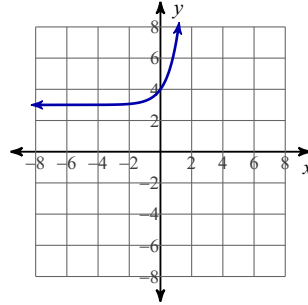
D)



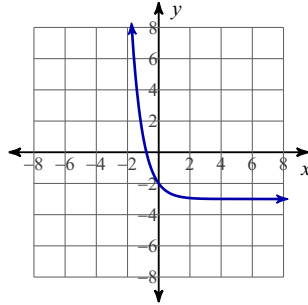
4) Which is the graph of the following function?

$$y = 0.25^x + 3$$

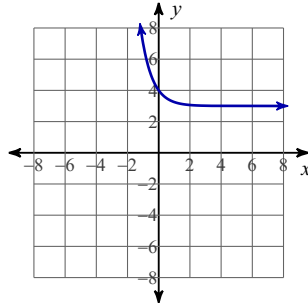
A)



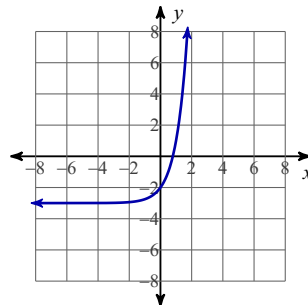
B)



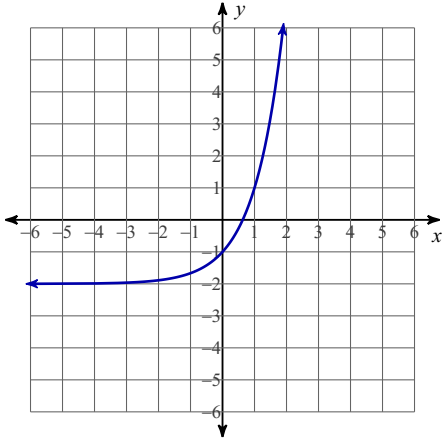
C)



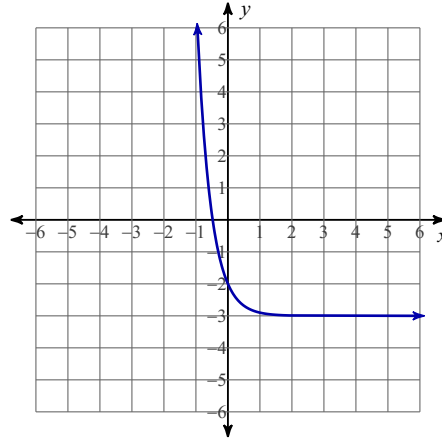
D)



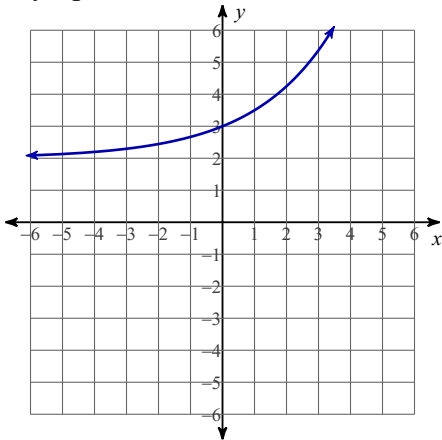
5) What is the equation of the horizontal asymptote?



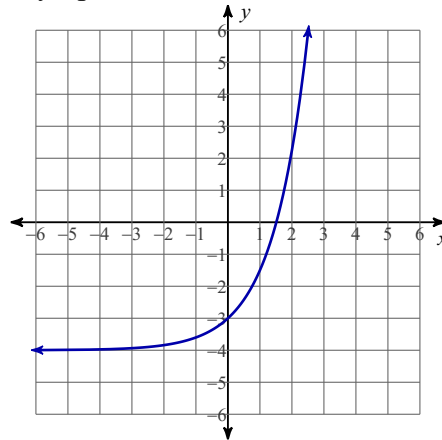
6) What is the equation of the horizontal asymptote?



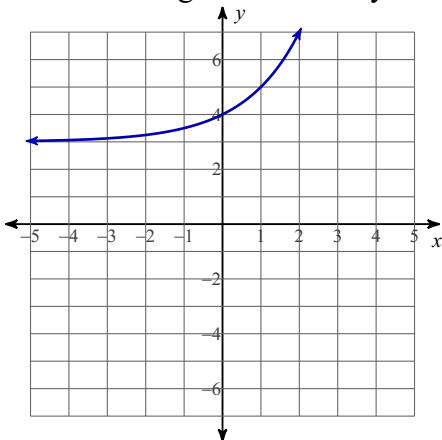
7) What is the equation of the horizontal asymptote?



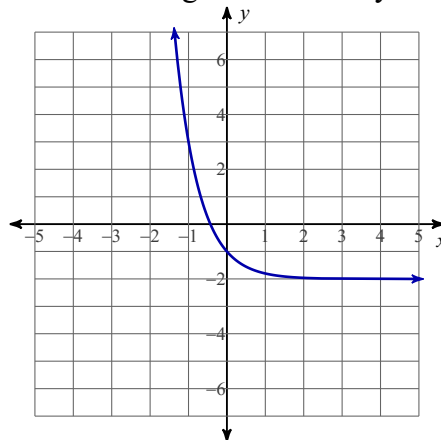
8) What is the equation of the horizontal asymptote?



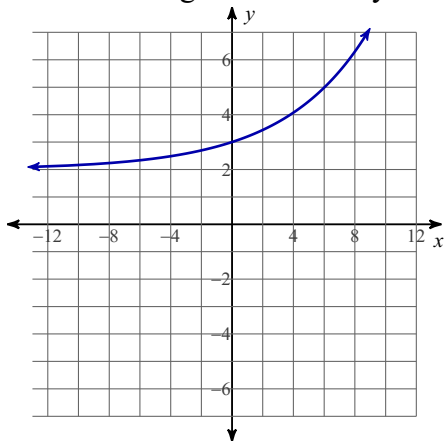
9) The function growth or decay?



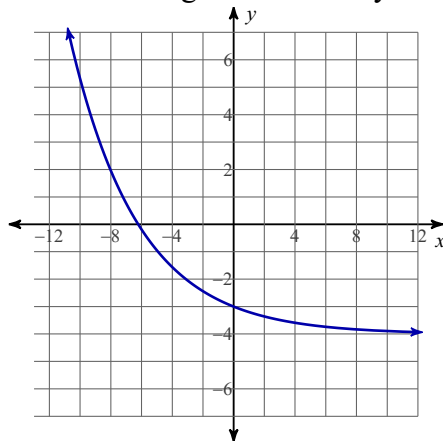
10) The function growth or decay?



11) The function growth or decay?



12) The function growth or decay?



13) Does the equation represent growth or decay?

$$y = 3^x + 2$$

14) Does the equation represent growth or decay?

$$y = 0.9^x + 2$$

15) Does the equation represent growth or decay?

$$y = \left(1 + \frac{0.35}{4}\right)^x$$

16) Does the equation represent growth or decay?

$$y = \left(1 - \frac{0.05}{12}\right)^x$$

17) What is the range?

$$y = 3^x + 2$$

18) What is the range?

$$y = 0.7^x - 1$$

19) What is the range?

$$y = (1 + 0.02)^x$$

20) What is the range?

$$y = (1 - 0.05)^x$$