Task card 1 Graphing Exponential Functions

Find the y-intercept of $y = 5\left(\frac{1}{2}\right)^x$.

Task card 2 Graphing Exponential Functions

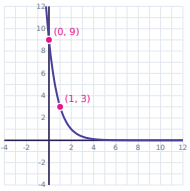
Does $y = \left(\frac{1}{2}\right)^x$ show exponential growth or exponential decay?

Task card 3 Graphing Exponential Functions

Find y when x = 2 for $y = 3(2)^x$.

Task card 4 Graphing Exponential Functions

What is the y-intercept of the exponential graph?



Task card 5 Graphing Exponential Functions

What is the horizontal asymptote of the graph of $y = 4(3)^x$?

Task card 6 Graphing Exponential Functions

Does $y = 6(2)^x$ show exponential growth or exponential decay?

Task card 7 Graphing Exponential Functions

Find the y-intercept of $y = 2\left(\frac{1}{3}\right)^x$.

Task card 8 Graphing Exponential Functions

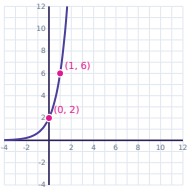
Does $y = 6(3)^x$ show exponential growth or exponential decay?

Task card 9 Graphing Exponential Functions

Find y when x = 1 for $y = 3^x$.

Task card 10 Graphing Exponential Functions

What is the y-intercept of the exponential graph?



Task card 11 Graphing Exponential Functions

What is the horizontal asymptote of the graph of $y = \left(\frac{1}{2}\right)^x$?

Task card 12 Graphing Exponential Functions

Does $y = 3^x$ show exponential growth or exponential decay?

Task card 13 Graphing Exponential Functions

Find y when x = 2 for $y = 8(\frac{1}{2})^x$.

Task card 14 Graphing Exponential Functions

What is the horizontal asymptote of the graph of $y = 6(\frac{1}{4})^x - 5$?

Task card 15 Graphing Exponential Functions

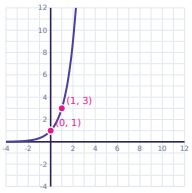
Find the y-intercept of $y = 2^x$.

Task card 16 Graphing Exponential Functions

Does $y = 5^x$ show exponential growth or exponential decay?

Task card 17 Graphing Exponential Functions

Write the equation of the exponential graph in the form $y = a(b)^x$.



Task card 18 Graphing Exponential Functions

Find y when x = -2 for $y = 12(2)^x$.

Task card 19 Graphing Exponential Functions

Find the y-intercept of $y = 5(3)^x$.

Task card 20 Graphing Exponential Functions

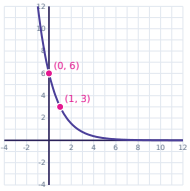
Does $y = 4(\frac{1}{3})^x$ show exponential growth or exponential decay?

Task card 21 Graphing Exponential Functions

Find y when x = 3 for $y = 81(\frac{1}{3})^x$.

Task card 22 Graphing Exponential Functions

What is the y-intercept of the exponential graph?



Task card 23 Graphing Exponential Functions

What is the horizontal asymptote of the graph of $y = 6(\frac{1}{2})^x$?

Task card 24 Graphing Exponential Functions

Find the y-intercept of $y = 3(2)^x$.

Graphing Exponential Functions Task Cards

Recording sheet · Grade 9 · Write growth or decay as one word, an asymptote like y = 0 or y = 3, a range like y > 2, and an equation like y = 3(2)^x or y = 8(1/2)^x + 1. Write other answers as numbers. To graph a function, click three points on its curve on the grid.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Graphing Exponential Functions Task Cards: Answer Key

Grade 9 · Easy

The answers online

1. 5	**2.** decay	**3.** 12
4. 9	**5.** y = 0	**6.** growth
7. 2	**8.** growth	**9.** 3
10. 2	**11.** y = 0	**12.** growth
13. 2	**14.** y = -5	**15.** 1
16. growth	**17.** $y = 3^x$	**18.** 3
19. 5	**20.** decay	**21.** 3
22. 6	**23.** y = 0	**24.** 3