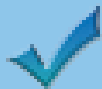


What's the Score?



- If you have any difficulty with these solutions, please contact your teacher before continuing.

- This is *not* an exponential function. The exponent is a number, 2, but for an exponential function, the exponent must be a variable. The base is a variable. To be an exponential function, it should be a positive number.
 - This is an exponential function. The leading coefficient is $\frac{1}{3}$, the base 2 is a positive real number, and the exponent is the variable x .
 - This is *not* an exponential function. The base is -3 , and for an exponential function, the base must be positive.
 - This is an exponential function. The leading coefficient is -4 , the base $\frac{1}{2}$ is a positive real number, and the exponent is the variable x .
- The y -intercept is 7.
 - The y -intercept is 0.6.
 - The y -intercept is 5.
- The function is increasing because the b -value, $\frac{3}{2}$, is greater than one.
 - The function is increasing because the b -value, 5, is greater than one.
 - The function is decreasing because the b -value, $\frac{1}{4}$, is between zero and one.
- This is an increasing function that extends from Quadrant II to Quadrant I. As the x -values decrease, the graph tends towards the x -axis, and as the x -values increase, the graph tends towards positive infinity. A possible b -value for the function is any real number greater than one.
 - This is a decreasing function that extends from Quadrant II to Quadrant I. As the x -values decrease, the graph tends towards positive infinity, and as the x -values increase, the graph tends towards the x -axis. A possible b -value for the function is any real number between zero and one.