

Worksheet #4 - Exponential Functions

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Please print your name(s) at the top of the page. Please answer in complete sentence.

Given the two points, there is one exponential curve that goes through both points. Just like with an equation of a line, there are two parameter for which to solve. Once you have determined on paper which exponential function, graph it on your calculator and verify that the curve goes through the points.

- Convert $y = 5(7)^{(x-2)/3}$ into $y = A_0r^x$ form.
- Determine $f(x)$ going through $(0, 5)$ and $(1, 12)$
- Determine $g(x)$ going through $(0, 36)$ and $(2, 4)$. Hint: Figure out $(1, y)$ and determining r should be easy.
- Determine $h(x)$ going through $(2, 4)$ and $(3, 9)$ - This is not x^2
- Determine $i(x)$ going through $(2, 25)$ and $(5, 4)$
- Which of these are exponential decay ?
- Convert each of these functions into $y = A_0r^x$ form.