Logarithmic Functions

While working in a group make sure you:

- Expect to make mistakes but be sure to reflect/learn from them!
- Are civil and are aware of your impact on others.
- Assume and engage with the strongest argument while assuming best intent.

1. Find the value t in the following by writing logarithmic equations as exponential equations:

   (a) $\log(t) = 5.5$

   (b) $\log_7(\sqrt[3]{7}) = t$

   (c) $\log_t(4) = 2$

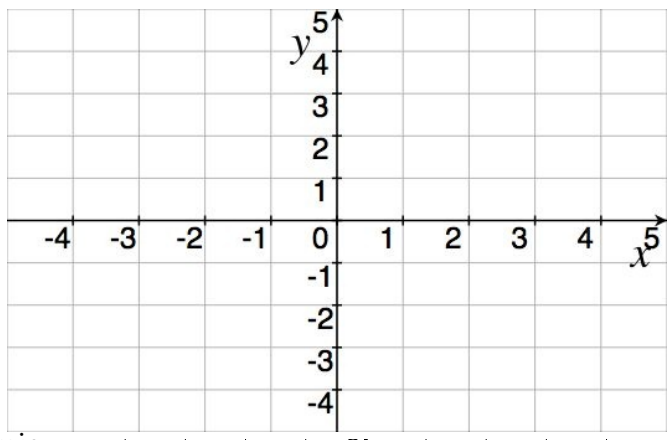
   (d) $2 = e^{0.04t}$

2. Graph:

   (a) $f(x) = 3^x$.

   (b) $g(x) = \log_3(x)$

   (c) $h(x) = 2\log_3(x) - 1$



3. Given that $g(x)$ is an logarithmic function of the form $y = \log_b(x)$ that has been vertically shifted and is graphed below.
   Find the equation.