Name:

Math 10a September 4, 2014 Quiz #0 (Practice; Does not count)

1. (a) A scientist models the height of a plant after n days as

 $h = C_1 \sqrt{n} + C_2$

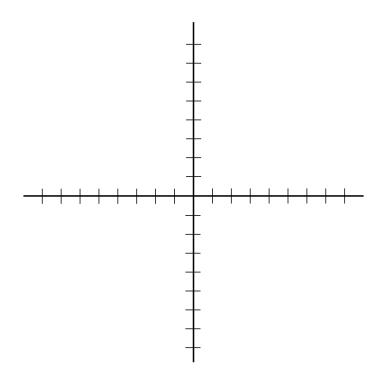
for some constants C_1 and C_2 . If initially (after 0 days) the plant is 3 inches tall and after 25 days it is 23 inches tall, what are the values of C_1 and C_2 ?

(b) What is n as a function of h?

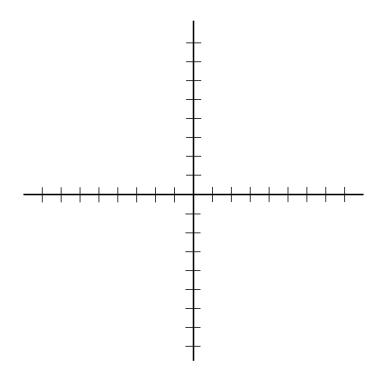
2. Solve for x:

 $\log_2(x+3) + \log_2(x+1) = 3.$

3. Draw the graphs of $y = e^x$ and $y = 2^x$ on the coordinate system below?



4. Draw the graph of $6 \cdot 2^{x-2} - 3$ on the coordinate system below. Label the x and y intercepts.



5. If you continued to draw the previous graph to the limits of the *x*-axis, it would go off the page. About how many pages would you need to add to the top to be able to complete the graph?