CS 62 Quiz

Binary Tree Sizes Mawhorter Spring 2017

Name:	
1. Draw a picture of a binary tree with 8 nodes which has height 5. (You may draw sideways.)	it
2. What is the minimum height of a binary tree with 8 nodes? How many nodes are the in the last layer of a minimum-height 8-node tree?	re
3. What is the difference in maximum size between a tree of height h and a tree of height h + 1? Express your answer as a ratio. It doesn't have to be exact, but don't use bignotation.	
4. For a binary tree with height h, what are the lower- and upper- bounds of the tot number of nodes it contains n, in big-O notation in terms of its height h?	al