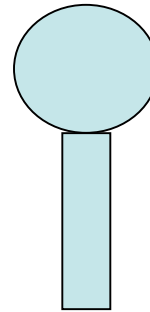
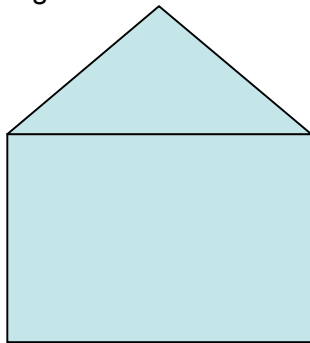


In class exercise, CS5nm, 10/06/2008 (10 pts)

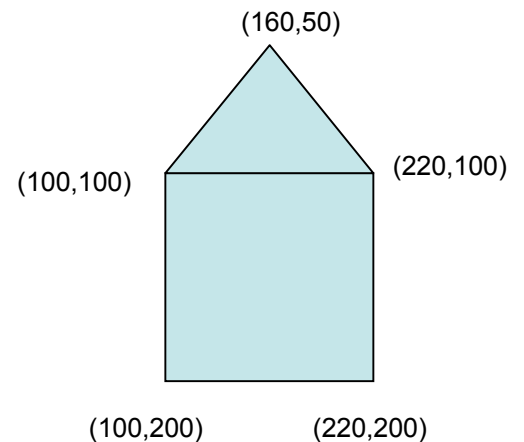
Full Name: _____

Name you go by in class: _____

- Suppose you are writing some software to be used in Kindergarten or Pre-school, so you want to be able to make drawings that resemble children's drawings of houses, trees, etc. For example, here is a house, and a tree.
- The house is just a triangle on top of a rectangle, and the tree is a circle on top of a rectangle.



To draw, you need the coordinates of each point. Let's assume that the upper left hand corner of the screen is 0, 0, and the lower right hand corner of the screen is 640,480, for example. Then the coordinates of this house might be as follows, if the houses lower left corner is 100,200, and the width of the house is 120, and the height is 150. We'll assume that the roof part is 1/3 of the total height, and the house part is 2/3 of the total height:



Now suppose you want to draw a house of any given width or height, with the lower left corner at position x,y . What are the other points? Your answers should be expressions involving x , y , width and height, and possibly some numbers.

$(x + \text{width}/2.0, \text{_____})$

Fill in the missing points in the diagram at right. You may collaborate. $(x, \text{_____})$

