

Problem #7**Solutions Due on January 15**

A student is standing on top of a building B feet tall. At a point h feet above her eye on the top of a building L feet away, a brick is dropped. Assume air resistance is negligible so that the acceleration due to gravity is $g \frac{\text{ft}}{\text{sec}^2}$. If the student rotates her head to keep her eye on the brick as she watches it fall, determine the height of the brick at the point in the brick's descent when the student's head is moving most quickly. (5 pts)