#### Homework # 35: 5.5 Page 319: 28, 31, 44; 5.7 Page 334: 1-11 odd, 25, 26 AND

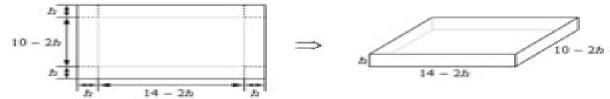
#### Optimization Problem Worksheet

#### Name:

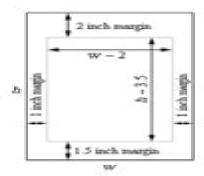
I We want to construct a box with a square base and we only have 10 m<sup>2</sup> of material to use in construction of the box. Assuming that all the material is used in the construction process determine the maximum volume that the box can have.

2 A manufacturer needs to make a cylindrical can that will hold 1.5 liters of liquid. Determine the dimensions of the can that will minimize the amount of material used in its construction.

3 We have a piece of cardboard that is 14 inches by 10 inches and we're going to cut out the corners as shown below and fold up the sides to form a box, also shown below. Determine the height of the box that will give a maximum volume.



4. A printer need to make a poster that will have a total area of 200 in and will have 1 inch margins on the sides, a 2 inch margin on the top and a 1.5 inch margin on the bottom. What dimensions will give the largest printed area?



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**D** Keegan

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