Homework Quiz #2 – Lessons 4, 5 and 6

Directions: You may use the following materials during this quiz: Homework, Notes, Tape Measures, Calculator, Formula Sheet. No copies of other people's work. **You MUST show your work to get full credit!!!!**

Each problem is worth 14 points

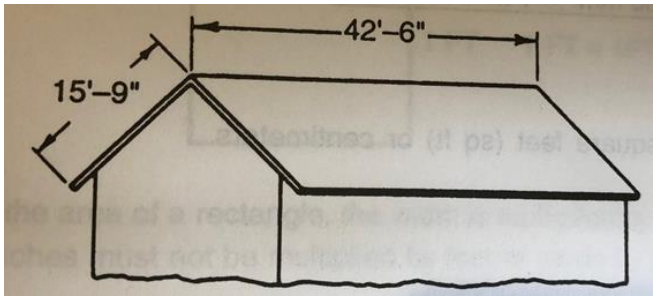
From the Lesson 4 Practice Set:

From Book page #85

1. Do all of problem #10: Find the total wall area for the following rectangular room: w = room width, L = room length, h = wall height. (No allowance need be made for wall openings such as door, windows, and so forth.) **w = 18', L = 24', h = 8'**
   Be sure to show your calculations (you can just write down the math you did with your calculator) and include units in your answer.

From Book page #86 and special instructions in the Lesson 4 homework

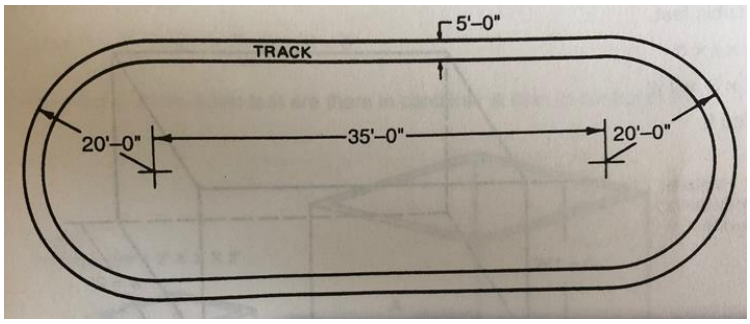
2. Use problem #15 (the image is shown below) to answer the following question: Both sides of the roof shown are covered with asphalt shingles. Estimate the square feet of roof. *Write your estimate and explain how you determined it.*



From Book page #103

3. Do all of problem #12: A rough floor is laid under the space occupied by the gymnasium track shown. Determine the area occupied by the track. Do not include the space inside the track.
   Be sure to show your calculations (write down the formulas you used and the math you did with your calculator) and include units in your answer.

Formula(s) used for this problem:

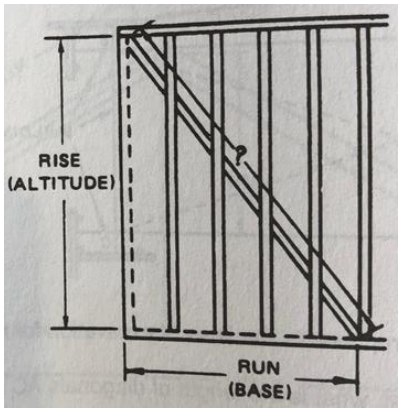


From the Lesson 5 Practice Set:

From Book page #129

4. Do all of problem #7: Find the length of the wall brace shown in the picture below. Round to the nearest eighth inch.
   Wall height = 6'-0", run of brace = 9'-0"
   Be sure to show your calculations (write down the formula you used and the math you did with your calculator) and include units in your answer. NOTE: For full credit, you MUST show how to calculate the answer WITHOUT using the 'Rise' and 'Run' buttons on your calculator)

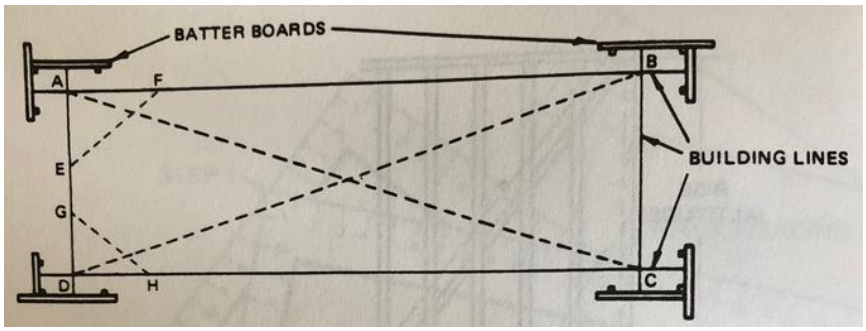
Formula used for this problem:



From Book page #130

5. Do all of problem #12: Find the lengths of the diagonals AC and BD if the side AB is 43 feet 6 inches and AD is 32 feet 6 inches.
   Be sure to show your calculations (write down the formula you used and the math you did with your calculator) and include units in your answer. NOTE: For full credit, you MUST show how to calculate the answer WITHOUT using the 'Rise' and 'Run' buttons on your calculator)

Formula used for this problem:



From the Lesson 6 Practice Set:

From Book page #105

6. Do all of problem #3: Find the volume of the cube with Side = 8' 11"
   Be sure to show your calculations (write down the formula you used and the math you did with your calculator) and include units in your answer.

Formula used for this problem:

From Book page #113

7. Do all of problem #3: What is the capacity in cubic feet of the circular silo shown?
   Be sure to show your calculations (write down the formula you used and the math you did with your calculator) and include units in your answer.

Formula used for this problem: