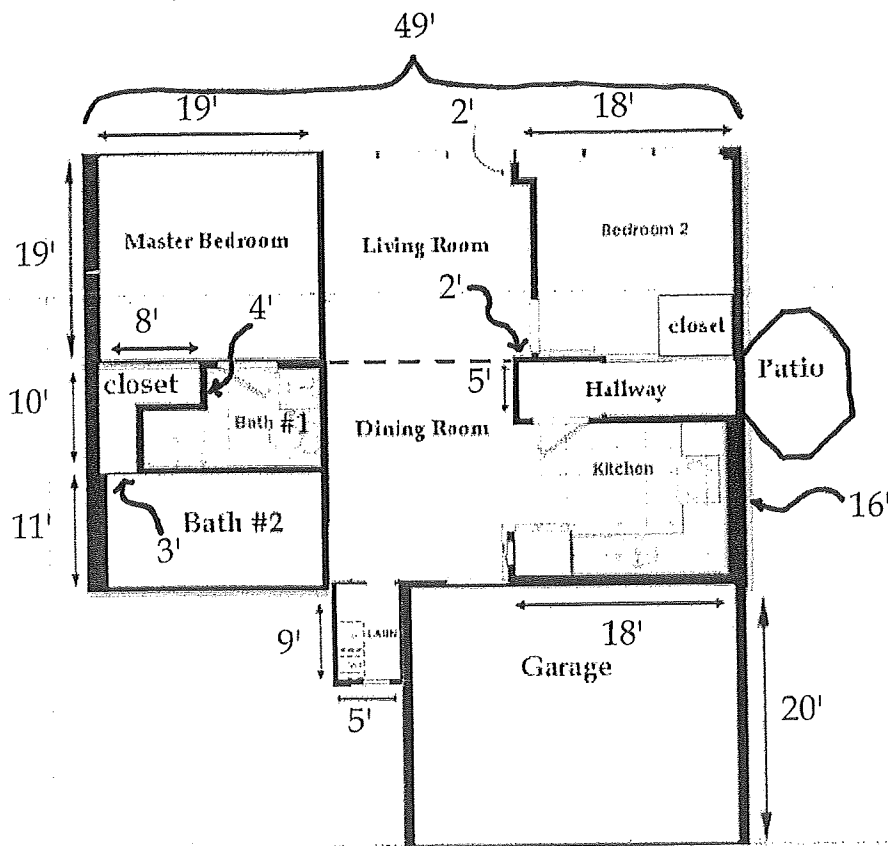


## Advanced Area Applications HW



Use the floor plan above to answer #1-3. Show all work on a separate sheet of paper.

1. The Brooks want to buy new carpet for the two bedrooms, closet and the hallway. (a) Find the total square footage of the area they want to carpet. (b) They must order it in square yards so convert to square yards. Round to the nearest square yard. (c) If the carpet they want to buy costs \$5 per square yard, how much is the subtotal of their order? (d) With a 6% sales tax, how much does the total purchase come out to?

2. The Vargas want to tile (both) bathrooms, the kitchen and laundry room. (a) Find the total square footage of the area needing to be tiled. (b) How many 6in x 6in tiles will they need for this project? (c) If Lowes offers a tile for \$0.38 if you buy more than 1,000 tiles or \$0.33 if you buy more than 2000 and Home Depot has tiles on sale for 30% off at an original cost of \$0.45, which deal is the better deal? (d) What would the sub total and total (with 6% sales tax) cost for this project come out to be?

3. Your 1960 Mustang has been leaking oil and has left stains on your garage floor. You want to paint your floor to cover up the stains. (a) What is the total square footage of the garage floor which needs to be painted? (b) The paint you want to use only comes in full gallon sizes. If one gallon of paint covers 75ft<sup>2</sup>, how many FULL gallons of paint will you need to paint TWO coats on the garage floor? (c) If each gallon costs \$22.94 what is the sub total cost of the paint? What is the total cost?