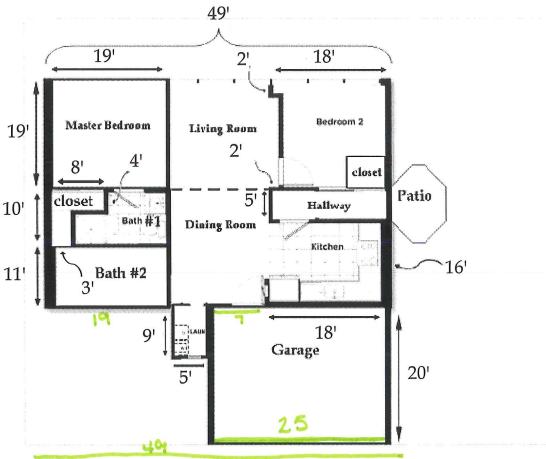
Name:

Advanced Area Applications HW Day 2



1. 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 75ft², 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?

a.) total Area of garage: 25 × 20 = 500 ft2 total cost w/o tak

b.) How many gallons to paint 2 coats?

500 × 2 = 1,000 ft2 to

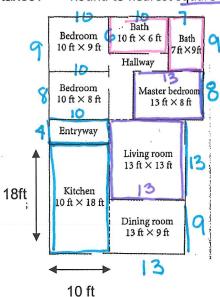
1000 ÷ 75 = 13.3 → must

buy full gallons so

Paint

\$340.43

2. (a) Gina's family wants to install 1-foot-square terra cotta tiles in the entryway and kitchen, and 6-inchsquare blue tiles on each bathroom floor. The terra cotta tiles cost \$5 each, and the bathroom tiles cost 45ϕ each. How many of each kind will they need? What will the tiles cost before taxes? (b) Gina's family would also like to install new carpeting in the living room and master bedroom. The carpeting costs \$16 per square yard and an extra \$4 per square yard for padding. How much will the new carpeting cost Gina's family before taxes? Round to nearest square yard.



Entryway: 4 × 10 = 40 ft2

Kitchen: 10 x 18 = 180ft2

total for terra cotta

We need 220 1x1 terra cotta tites

cost befor taxes ! for terra cotta tiles

Blue Square tiles

Bathrooms: 10x6 = 60 ft2

7×9 = 63ft2

Total area of bouthrooms

A+ = 123ft2 Otal tiles: 123x4 = 492 tiles

total cost for lexlein tites = 492 x. 45 = 221.40 blue

b.) Carpet:

Livingroom: 13x13 = 169 ft2

masterbed: 13x8 = 104 ft2 Square feet = 273ft21

Padding: 31 x \$4 = \$ 124.

31x \$116 = 4910.

How mony 6x6 inch tiles are in a square foot?



for every sq. tires.

to square yds. = 30.3 yd2 to: Nex+ ya Round

COST of corpet