

Directions - MAKE SURE YOU DOWNLOAD THE ANSWER SHEETS FROM MY BLOG - NO SHEETS-NO CREDIT:

(Part 1 - 60 pts)

Your task is to find the perimeter of the house and the area of the property for the original drawings you see here. Find the volume of concrete needed for both the area and the perimeter. You will also need to do this for the footings and the pilings. Use either Lowes or Home Depot to find the cost of concrete needed.

(Part 2 - 40 pts)

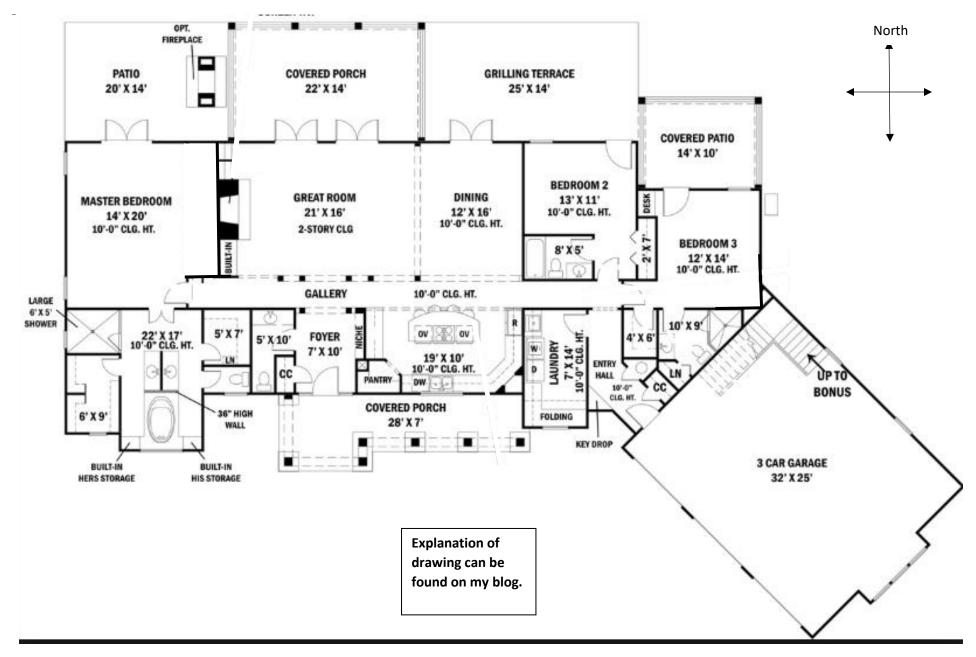
The client has decided to expand the home but they do not know by how much. The client said they would like the following changes:

- (a) Master Bedroom is $(x + 14) \times (x + 20)$
- (b) Great Room is 21 x (x + 16)
- (c) Dining Room is $12 \times (x + 16)$
- (d) Bedroom 2 is 13 x (x + 11)
- (e) The three car garage is now $(x + 32) \times (x + 25)$

Find the new area and perimeter for the home. This will be a polynomial.

(BONUS) - 10 pts

Find the cost to put carpet in the three bedrooms. Find the cost to put tile in all the bathrooms and the laundry room. Find the cost to put hardwood flooring in the great room, dining room, kitchen, foyer, gallery, and entry hall. Find the total cost for all upgrades.



Concrete Slab is the area that covers the entire home plus garage and all exterior areas. Slab is 4" thick. You will need the volume – change units!

Concrete Footing is the perimeter of the home and garage (outline of property). Concrete pilings are 6' deep, 8" wide, 16" long – located at the black squares.

Part A - Perimeters (15	pts)	Part A - Areas (30 pts)			
Perimeter of Home - North	Area of Patio	Area of Bedroom 3	Area of Dining		
Perimeter of Home - South	Area of Covered Porch	Area of Large Shower, closet, his/her bathroom	Area of Entry, Hall closet, Side Bathroom		
Perimeter of Home - East	Area of Grilling Terrace	Area of Gallery	Area of Bedroom 2 - including bathroom		
Perimeter of Home - West	Area of Covered Patio	Area of Foyer w/bathroom	Area of Garage & Covered Porch		
Total Perimeter (in feet)	Area of Master Bedroom	Area of Kitchen and Pantry	Total Area (in feet)		
Total Perimeter (in inches)	Area of Great Room	Area of Laundry Room	Total Area (in inches)		
	Part	t A - Volumes (15 pts)			
Volume of Perimeter Footing (in feet)	Volume of all Pilings (in feet)	Number of Bags of Concrete Needed for Volume	Cost of Concrete		
Volume of Concrete Slab Using Area (in feet)	Total Volume (in feet)	Company You Used to Find Cost of Concrete (insert link of the actual page)			

Part B - Perimeters (20 pts)	Part B - Areas (20 pts)			
Perimeter of Home - North	Area of Patio	Area of Bedroom 3	Area of Dining **polynomial	
Perimeter of Home - South	Area of Covered Porch	Area of Large Shower, closet, his/her bathroom	Area of Entry, Hall closet, Side Bathroom	
Perimeter of Home – East	Area of Grilling Terrace	Area of Gallery	Area of Bedroom 2 - including bathroom **polynomial	
Perimeter of Home - West	Area of Covered Patio	Area of Foyer w/bathroom	Area of Garage & Covered Porch **polynomial	
Total Perimeter	Area of Master Bedroom **polynomial	Area of Kitchen and Pantry	Total Area	
	Area of Great Room **polynomial	Area of Laundry Room		

Answer Sheet – BONUS (10 pts)	Cost	Cost Per Unit	Store Purchased From
Master Bedroom Carpet Cost			
Bedroom 2 Carpet Cost			
Bedroom 3 Carpet Cost			
Bathroom 1 Tile Cost			
Bathroom 2 Tile Cost			
Bathroom 3 Tile Cost			
Bathroom 4 Tile Cost			
Laundry Room Tile Cost			
Great Room Hardwood Cost			
Gallery Hardwood Cost			
Dining Room Hardwood Cost			
Kitchen Hardwood Cost			
Entry Hall Hardwood Cost			
Foyer Hardwood Cost			
Total Cost for All Upgrades			1