

Name:

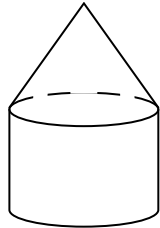
Date:

Painting Houses v2

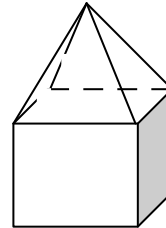
(AS01/AS03/ SR01)

On-Demand (Check One) Yes No

House A:



House B:



1. a) There are two painting companies, Mark's Painting World and Tina's Treasures, that are making offers to paint the houses. The charts below show how much each company will charge based on how much paint they must use (the patterns will continue if more than 3 gallons are needed). Based on the charts, write an equation for each company's cost to paint the house. Be sure to define all variables you use.

Mark's Painting World

Gallons of Paint	Cost (\$)
1	540
2	580
3	620

Equation for Mark's Painting World:

Variables: _____

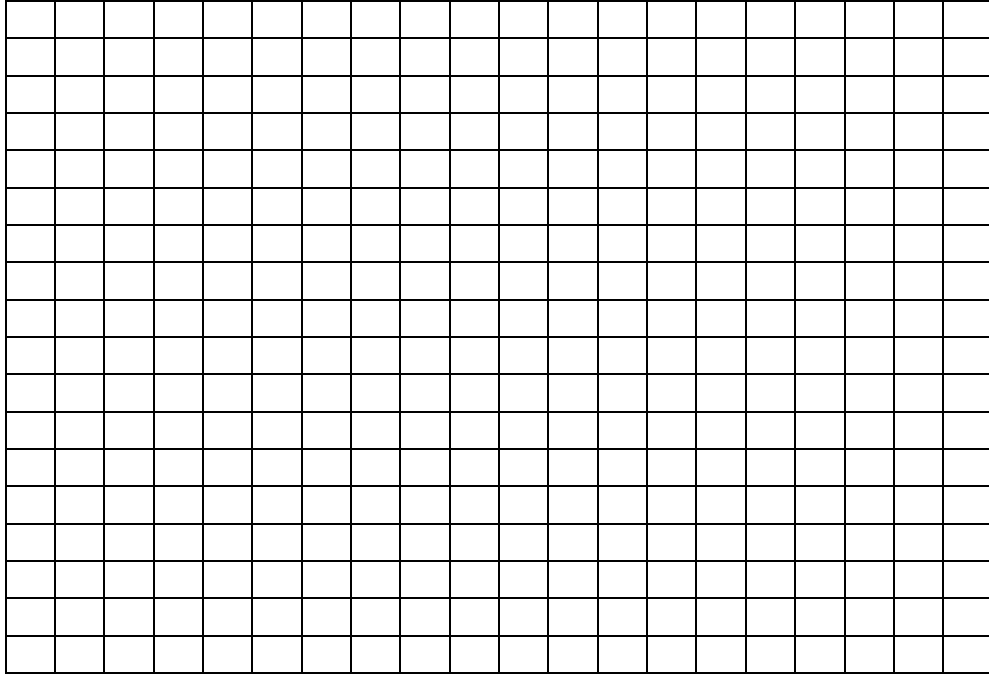
Tina's Treasures

Gallons of Paint	Cost (\$)
1	350
2	400
3	450

Equation for Tina's Treasures:

Variables: _____

- b) Sketch the two graphs. Make sure to label your graph correctly, with the axes labeled, and the scale clearly marked.



- c) Show how you would algebraically solve a system of equations to determine the number gallons at which the cost of the two companies is the same.

d) For how many gallons would it be less expensive to use Mark's Painting World and for how many gallons would it be less expensive to use Tina's Treasures? Explain your answer using words, numbers, and/or diagrams.

2. What are two pieces of information you know that will help you determine the cost of painting the house?

3. What are two questions that need to be answered to determine the cost of painting the house? Be sure to write them as questions.
