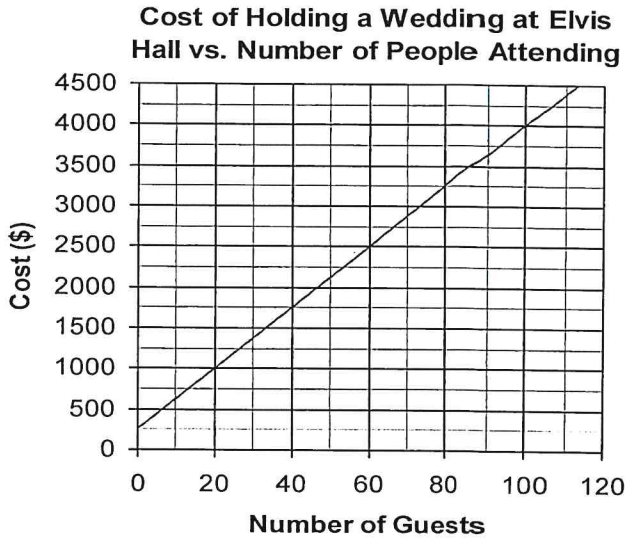
Practice: Finding an Equation That Models A Graph | MFM1P

1. The graph below represents the cost to hold a wedding at Elvis's Buffet and Banquet Hall. The cost depends on the number of guests attending.



a) Does the graph represent direct or partial variation? How do you know?

b) What is the fixed (or starting) cost of holding a wedding at Elvis Hall?

c) What is the cost per person (i.e. the **rate of change**)

d) Write an equation to represent the Cost **C**, of the Hall rental for **n** guests.

e) Use your equation to calculate how much it would cost if 63 guests attended.

f) Use your equation to calculate how many guests can attend for a total cost of $3175.