**A. At what hourly rate is the pool being filled? Use mathematical reasoning to explain your answer.**

# Making predictions

**B. At the rate you calculated, how long will it take to fill the 660,000 gallon pool? Show your work to justify your mathematical reasoning.**

**C. Is the hourly rate the same as the slope of the line in the graph? Why or why not?**

**D. Find the equation of the line for the graph. (Show your work!)**

**E. Does the graph represent the constant of proportionality? Why or why not?**