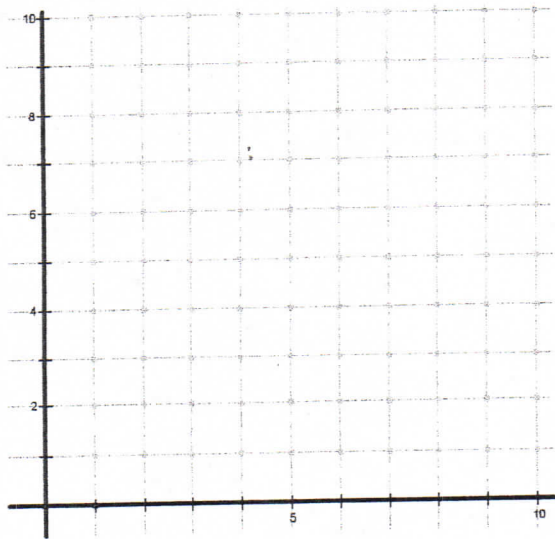


2. The Ace Telephone Co. charges a flat monthly fee of \$22.00 for a telephone line and \$0.20 per minute for long distance calls.

a. If you make 25 minutes of long distance calls per month, what will it cost? Show your work.

b. Write an equation that will relate the total cost per month,  $C$ , to the number of minutes,  $m$ , of long distance calls that you make. What form is your equation in? What is the dependent variable? What is the independent variable?

c. Sketch a graph of this equation for up to 100 minutes of calls.



d. How many calls could you make if your phone budget is \$30?