

### CONSTRUCTED-RESPONSE ITEMS

11. Albert sells baseball programs at a stadium. The function  $m(x) = 2.50x$  represents the total amount of money collected, in dollars, for selling  $x$  baseball programs.

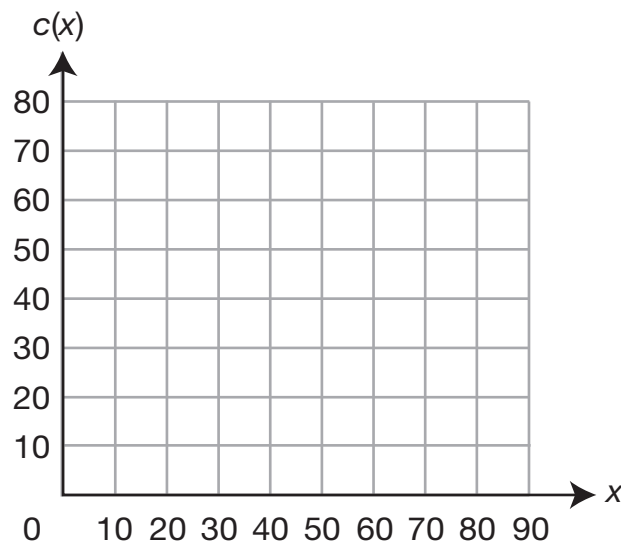
- A. Fill in the table with the amounts of money collected for selling baseball programs.

**Albert's Revenue**

Baseball Programs Sold	Money Collected (\$)
150	
175	
197	

The cost, in dollars, to print up  $x$  programs for each game is represented by the function  $c(x) = 0.50x + 40$ .

- B. On the grid below, draw a line that contains the coordinate points of the cost to print up  $x$  programs for each game.



Go to the next page to finish question 11.

11. **Continued.** Please refer to the previous page for task explanation.

In addition to his hourly wage, Albert earns a bonus when the amount of money collected is greater than the cost to print the total number of programs he sold. His bonus is equal to  $\frac{1}{2}$  of the difference between the amount of money collected,  $m(x) = 2.50x$ , and the cost,  $c(x) = 0.5x + 40$ .

- C. How much money does Albert earn as a bonus when he sells 309 baseball programs? Show all of your work. Explain why you did each step.