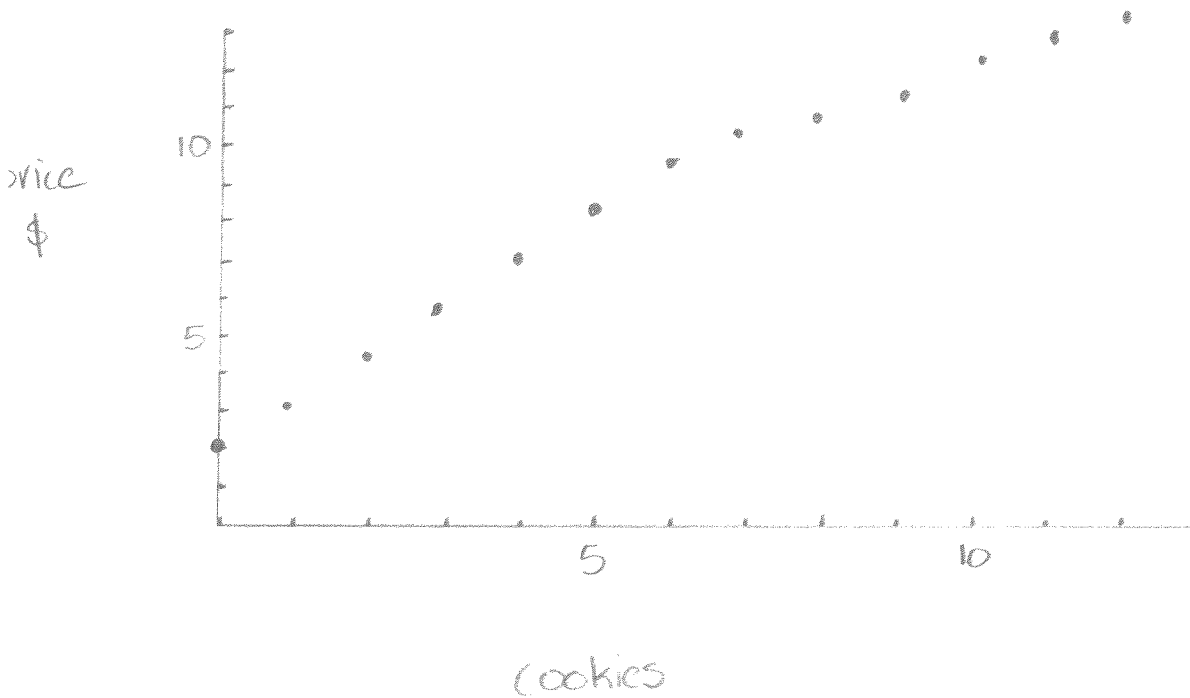# Math 111: Final Review 7b

1. The SHS Glee club is selling cookies to buy a tour bus. These are good cookies, you have to bribe them with $2 just to get into the sale. Cookies are $1.25 for the first 6, and 75¢ for any additional cookies Find and graph the price as a function of the number n of cookies purchased, for $n \le 12$. Be careful – no one wants to buy just part of a cookie.

$$C(n) = \begin{cases} 2 + 1.25n & \text{if } n \le 6 \\ 9.5 + 0.75(n-6) & \text{if } 6 < n \le 12 \end{cases}$$

price
$

cookies

2. The SHS Math teachers are raising money to send Mr. Sprenger to Europe. They are starting an equation solving service. It costs $5 to sign up for the service $2 for the first 8 equations solved . It's $1.50 for any additional equations. Find and graph the price as a function of the number n of equations solved, for $n \leq 15$. Be careful – no one wants their equations only partially solved.

$$S(n) = \begin{cases} 5 + 2n & \text{if } n \leq 8 \\ 21 + 1.5(n-8) & \text{if } 8 < n \leq 15 \end{cases}$$