

Piecewise Functions: Spotify Premium

Spotify Premium service costs \$9.99/month for one person to use the service. If you buy the Family Premium account, it is \$14.99/month for up to 6 people (must be family) to use the service. Assume that you make the most economical decision based on the number of people in your family (for example, if you are just 1 person, you would buy the 1-person account, not the family account). Source: <https://www.spotify.com/us/family/>

- a) Make a table showing how much you would pay per month based on n , the number of people in your family who plan to use Spotify Premium. Then calculate the monthly cost per user for each n .

n	Monthly Cost for Premium Spotify $M(n)$	Monthly Cost per user $C(n)$
1		
2		
3		
4		
5		
6		

- b) Sketch a graph of the monthly cost $M(n)$ and write a piecewise function to represent it.
- c) Sketch a graph of the monthly cost per user $C(n)$ and write a piecewise function to represent it.