

FUNCTION GRAFUN

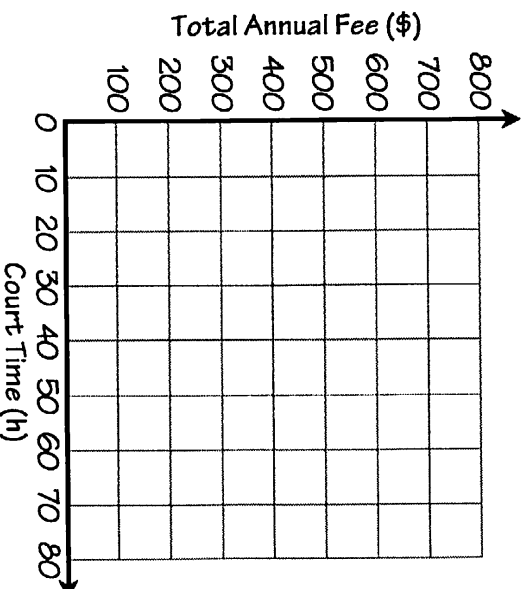
For each situation, represent the same information in the form of (a) a table; (b) two graphs; and (c) two equations. Explain the significance of the point of intersection of the two graphs.

Tennis Clubs.

The Ace Tennis Club charges annual dues of \$200, plus \$7 per hour to use a court. The Love Tennis Club charges annual dues of \$300, plus \$5 per hour to use a court. Show how each club's total annual fee is a function of the number of hours a court is used.

Equations:

Court Time (h)	Annual Fee (\$)	
	Ace	Love
0		
10		
20		
30		
40		
50		
60		
70		
80		

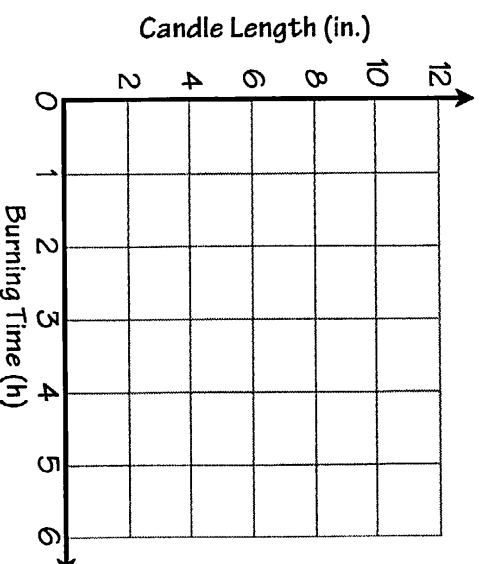


Candles.

Janis lights two candles at the same time. The red candle is 12 in. long and burns at the rate of 2.5 in./h. The blue candle is 9 in. long and burns at the rate of 1.5 in./h. Show how each candle's length is a function of the number of hours the candle has burned.

Equations:

Time (h)	Length (in.)	
	Red	Blue
0		
1		
2		
3		
4		
5		
6		



Wild Animal Race.

The zebra and the hippo had a race. The zebra gave the hippo a 100-ft head start. The zebra ran at an average speed of 22 ft/s while the hippo ran at an average speed of 15 ft/s. Show how the distance of each animal from the starting line is a function of the time since the race started.

Equations:

Time (s)	Distance (ft)	
	Hippo	Zebra
0		
2		
4		
6		
8		
10		
12		
14		
16		

