1)Create an equation then graph to show the relationship described below.

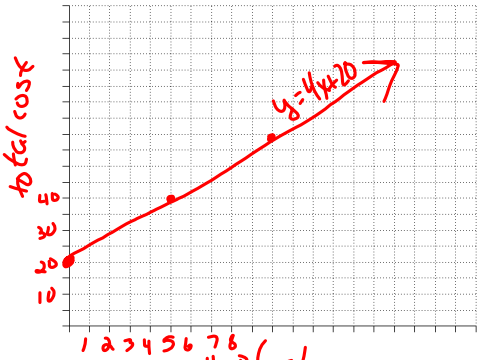
Determine the amount of money that you spend if a gym membership costs $20 each month and an additional $4 per spin class.

Based on your graph, How much would you spend in a month you took 8 spin classes?

Let x = # of classes
y = total cost

m = 4
b = 20 y = 4x + 20

x	y
0	20
10	60
5	40



$52 x = 8 y = ? y = 4(8) + 20 y = 32 + 20 y = 52

Nov 16-5:08 PM

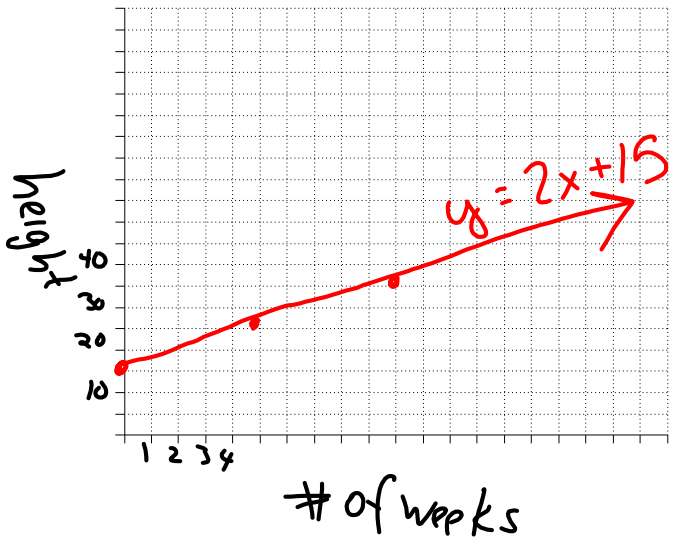
2) On the windowsill is a plant that is 15 inches tall. It is growing 2 inch per week. Write and graph an equation illustrating the plant growth.
Based on your graph, how tall will the plants be after 5 weeks?

25 inches

Let x = # of weeks
y = height

m = 2 y = 2x + 15
b = 15

x	y
0	15
5	25
10	35



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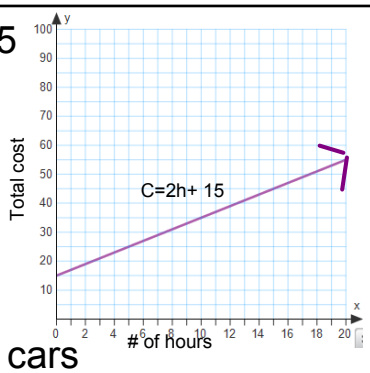
2) C = 2h + 15

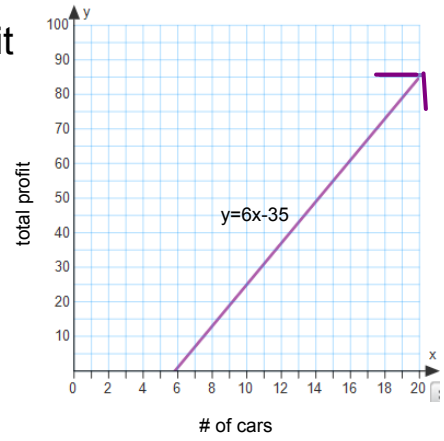
5 hours



3) Let x = # of cars

y = Total Profit $y = 6x - 35$

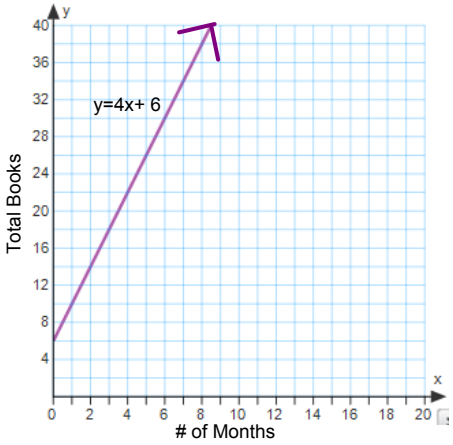
$25 Profit



4) Let x = # of months

y = Total Books

34 Books $y = 4x + 6$



Dec 16-6:45 AM

2) It costs $5 for a membership to Top Golf, then $35 per hour to golf.

A) Write an equation to model the situation.

Let x = # of hours

y = total cost

m = 35

b = 5

$y = 35x + 5$

B) If Max paid $127.50 during his first trip to Top Golf, how many hours did he play?

$y = 35x + 5$

$127.50 = 35x + 5$

$-5 \quad -5$

$\frac{122.50}{35} = \frac{35x}{35}$

$3.5 = x$

3 hrs 30 min $3\frac{1}{2}$ hrs

Dec 16-6:45 AM