1. Uber rates in Kansas City include a \$3 booking fee and \$1.10 base fare as well as \$0.98 per mile traveled. (a) Write a function for the total fare (F) in terms of the number of miles (x) traveled. (b) What is the total fare for a 14-mile Uber trip?

$$y=mx+b$$
 $y-int=fixed$ 
 $y-y_1=m(x-y_1)$ 
 $y=mx+b$ 
 $y$ 

$$flat = {}^{5}4.10$$
  
 $m = rate = 0.98$   
 $y = 0.98 \times + 4.10$   
 $F = 0.98 \times + 4.10$   
 $F = 0.98 (14) + 4.10$   
 $F = {}^{5}17.82$ 

1. A local plumber charges a service fee plus an hourly rate for labor. She charged \$103.75 for a job requiring 2.5 hours of labor and \$88.70 for a job requiring 1 hour and 48 minutes. (a) Write an equation for total cost (*C*) in terms of the numbers of hours (*x*). (b) What is her hourly charge? (c) What is her service fee? (d) What would be the total charges for an 8-hour job?

$$M = \frac{103.75 - 88.70}{2.5 - 1.8} = \frac{15.05}{0.7} = \frac{3}{21.5} / hr.$$

Point-Slope  

$$y-88.70=21.5(x-1.8)$$
  
 $y-88.70=21.5x-38.7$   
 $(c=215x+50)$ 

How many hours can she work for 500?

500 = 21.5x + 50

-50

450 = 21.5 x

20.93 LE X

