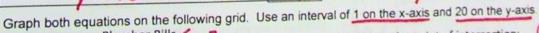
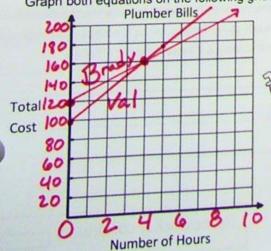
## --- Unit 4, Page 19 ---Example 1: Taxi Company A You are visiting Baltimore MD, and Taxi Company A charges a flat fee of \$3.00 for using the taxi and Taxi Company B You are visiting Baltimore MD, and Taxi Company 8 an additional \$0.75 per mile. Write an equation charges a flat fee of \$5 for using the taxi and an that you could use to find the cost of a taxi ride in additional \$0.50 per mile. Write an equation that Baltimore, MD. you could use to find the cost of a taxi ride in Baltimore, MD. $\times$ = the # of miles $\rightarrow$ = the cost.0 $\times$ = the # of miles and $\times$ = the cost.0 Equation: Graph both equations on the following grid. Use an interval of 1 on both axes. 10 10 Taxi A vs. Taxi B 1) Name the point of intersection: 2) What does the point of intersection mean to the situation? (Include what each value means, what it 8 means if more miles are travelled and what it Total 6 means if less miles are traveled.) Cost 4 2 Number of Miles Example 2: Brady the Plumber Valeria the Plumber Valeria, a plumber, charges a fee of \$100 to make a Brady, a plumber, charges a fee of \$120 to make a house call. She also charges \$15.00 an hour for labor. house call. He also charges \$10.00 an hour for labor. Write a equation that you could use to find the amount Write an equation that you could use to find the Valeria charges for a house call based on the number of amount Brady charges for a house call based on the hours of labor. number of hours of labor.

 $\times$  = # of hours  $\longrightarrow$  = the cost.

 $\times$  = # of hours  $\underline{\hspace{1cm}}$  = the cost. Equation:





1) Name the point of intersection: 2) What does the point of intersection mean to the

situation? (Include what each value means, what it means if more hours are needed and what it means