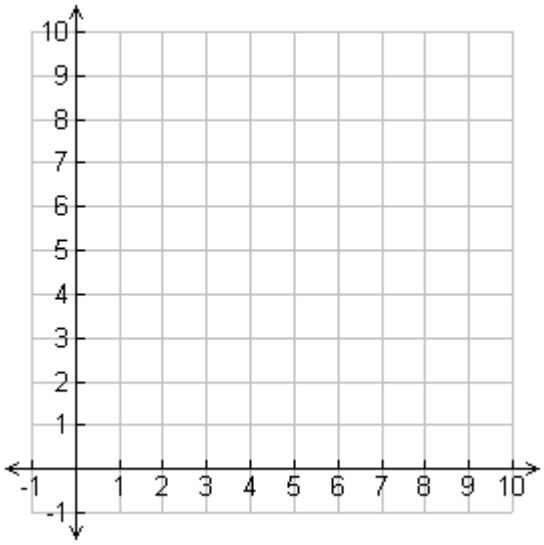
7.1: 1. La costa charges $5.00 per burrito and tacos for $2.00. La costa has an earnings goal of $20 for the day.



a. Write a linear equation that describes the problem.

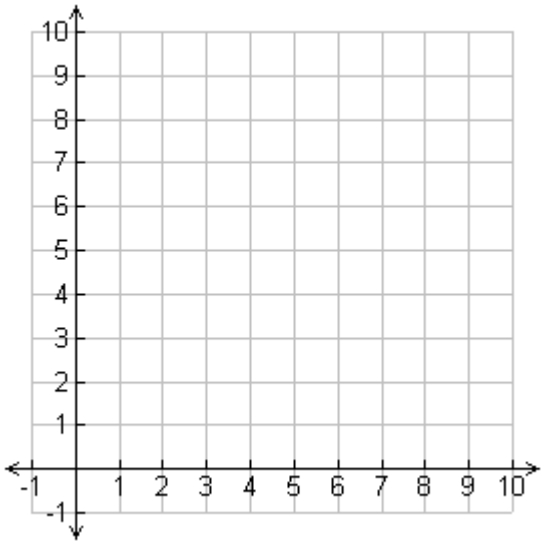
_____

b. Graph the linear equation.

c. If lacosta sells 4 tacos, how many burritos will need to be sold?

_____

2. KHS charges $4.50 for the dance ticket and $1.50 for each grape soda. Kimball hopes to earn $9 .



a. Write a linear equation that describes the problem.

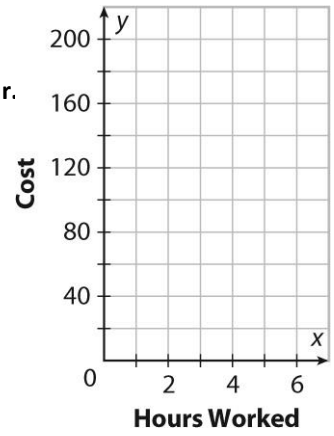
_____

b. Graph the linear equation.

c. If one lonely person shows up to the dance how much soda does he need to buy so Kimball earns $9.

_____

7.2: Use the following for 1–3: Plumber Fred charges $20 for a house call plus $40 per hour. Plumber Gianni charges $80 for a house call plus $20 per hour.



1. Write a one-variable equation for the charges of Fred and Gianni

Fred= $f(x)$ = _____

Gianni= $g(x)$ = _____

2. After how many hours will the two locksmiths charge the same amount?

3. Plot $f(x)$ and $g(x)$ on the graph below. Find the intersection.

4. Katelyn has $1200 in savings. She has a recurring monthly bill of $60 but no income.

a. Write an equation, $f(x)$, representing her savings each month.

b. Let $g(x) = 0$ represent the point when Katelyn has no money left. In how many months, x, will her savings account reach zero?

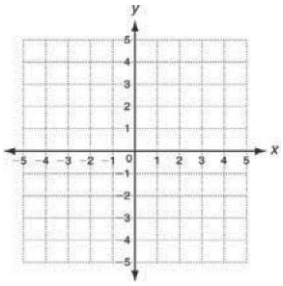
7.3 :

Use substitution to tell whether each ordered pair is a solution of the given inequality.

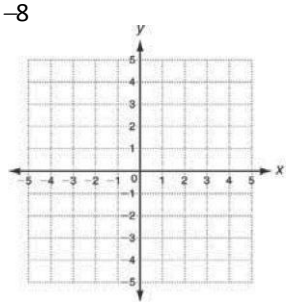
1. (1, -3); 3x-2y> 2
2. (9, 12); $2y \leq 2x + 6$
3. (0,0); $y < -2$

Rewrite each linear inequality in slope-intercept form. Then graph the solutions in the coordinate plane.

4. $3y - x > 3$



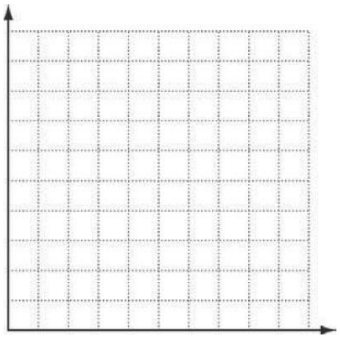
5. $-3x - 4y \leq -8$



6. Aimal wants to be a rapper. Aimal is buying gold chains for 1,000 and Diamond rings 2,500 . He will spend **at least** 10,000 dollars.

a. Write an inequality to describe the situation.

b. Graph the solutions.



c. Give two possible combinations of chains and rings he can buy.

Write the inequality