## How-am-Ldoing?

- What is the slope of the x-axis? -----2. Perpendicular lines have opposite reciprocal slopes. What is the slope perpendicular to the y-axis? 0 Parallel lines have the slope. same undefined (1/0) 5. The slope of the y-axis is The slope parallel to -5/7 is -5/7 7. The slope perpendicular to 6/11 is -11/6
- 8. The slope parallel to the y-axis is undefined (1/0). Calculate the slope of (2, -5) (3, 2).



To join the local gym. Karim pays a start-up fee of \$99.00, plus a monthly fee of \$29.00.

a) Write an equation for the total cost, C dollars, for n months at the gym.

b) Suppose Karim went to the gym for 23 months. What was the total cost?

- c) Suppose the total cost was \$505. For how many months did Karim use the gym?
- d) Could the total cost be exactly \$600? Justify your answer.

- a) Write an equation for the total cost, C dollars, for n months at the gym.
- b) Suppose Karim went to the gym for 23 months. What was the total cost?

$$C = 29(23) + 99$$
  
=  $667 + 99$   
=  $766$ 

c) Suppose the total cost was \$505. For how many months did Karim use the

gym?  

$$505 = 29n + 99$$
  
 $505 - 99 = 29n$   
 $406 = 29n$   
 $n = 14$ 

d) Could the total cost be exactly \$600? Justify your answer. 600 = 29n + 99

No, you can't buy a membership for 17.2 months. (17 or 18) 
$$600 - 99 = 29n$$
$$501 = 29n$$
$$n = 17.2$$