



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

m = b = x =

y =

- 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.



$$C = $29.00n + $99.00$$

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 =

Justify your answer.
$$600 = 29n + 99$$

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



1. State the slope perpendicular to y = -3/8x - 4

Slope =
$$8/3$$

2. State the slope parallel to y = -7x + 3

Slope =
$$-7$$

3. State the slope perpendicular to y = 6x + 2/3

Slope =
$$-1/6$$

4. State the slope perpendicular to y = -8 - 4/5x

Slope =
$$5/4$$