1. The graph of a linear function has slope $-\frac{7}{3}$ and $y$-intercept 5 . Write an equation for this function.
2. Graph the linear function with equation: $y=-\frac{3}{4} x+2$

3. Write an equation to describe this function. Verify the equation.

4. To join the local gym, Karim pays a start-up fee of $\$ 99$, plus a monthly fee of $\$ 29$. 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.
