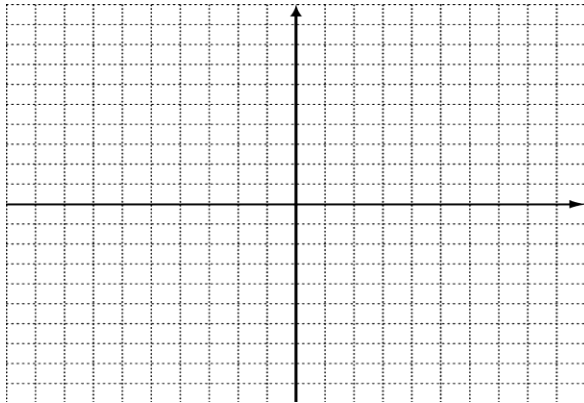


1.3, 1.4

1. Draw and accurate graph of the function $f(x) = -\frac{3}{4}x + 2$.



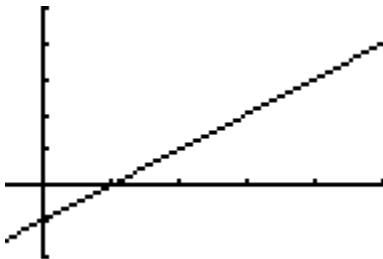
x – intercept: _____

vertical intercept: _____

Slope: _____

Two additional points on the line:

2. Determine a formula for the linear function represented below.
 (Xscl=0.25, Yscl=300)



3. Determine a formula for the linear function represented below.
 $\{(-3, 35), (-2, 30), (-1, 25), (0, 20), (1, 15), (2, 10), (3, 5)\}$

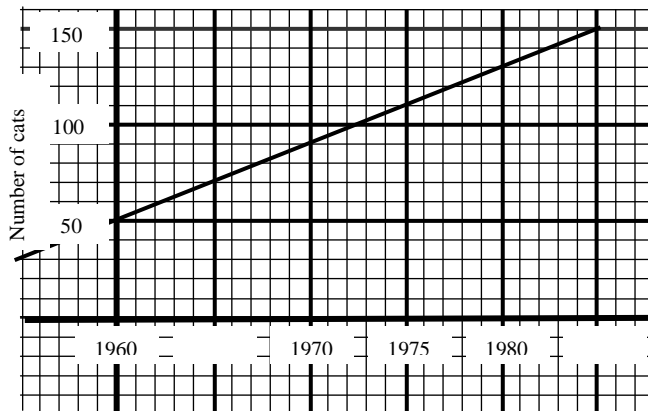
4. Consider the following table of values.

Input, x	-2	1	5	8	14	23	36
Output, y	19	7	-9	-21	-45	-81	-133

- a. Show that the data in the table could represent a linear function. (i.e. show that the rate of change is constant)

- b. Give the equation of the linear function which generates this table of values.

5. Determine a formula for the linear function $A(n)$ such that $A(2)=9$ and $A(-4)=1$.
6. The height of a tree is a function of the amount of time that has passed since it was planted. A tree was 7 feet tall 6 years after it was planted. It was 10 feet tall 15 years after it was planted.
- What is input variable? What are its units? _____
 - What is output variable? What are its units? _____
 - Determine a linear equation to represent this situation.
 - Interpret the slope. Include units.
 - How tall was the tree when it was planted?
7. In 1960 there were _____ cats. Since then the number of cats has been increasing by _____ cats per year.



Practice Problems from the Book:
 Section 1.3 Page 24: #10, 15, 24
 Section 1.4 Page 32: #40