

- 2-70. Sometimes the quickest and easiest two points to use to graph a line that is not in slope-intercept form are the $x$ - and $y$-intercepts. Find the $x$ - and $y$-intercepts for the two lines below and then use them to graph each line. Write the coordinates of the $x$ and $y$-intercepts on your graph. (HINT: Plug $x=0$ in to find the $y$-intercept and plug $y=0$ in to find the x -intercept.)
a. $x-2 y=4$
b. $3 x+6 y=24$

2-71. Find the slope of the line passing through each pair of points below.
a. $(1,2)$ and $(4,-1)$
b. $(7,3)$ and $(5,4)$
c. $(-6,8)$ and $(-8,5)$
d. $(55,67)$ and $(50,68)$
e. Goofey got 1 for the slope of the line through points $(1,2)$ and $(4,-1)$. Explain to her the mistake she made and how to find the slope correctly.

2-72. Evaluate the following expressions.
a. $8 \frac{2}{5} \div 3 \frac{1}{4}$
b. $5 \frac{1}{2} \cdot\left(-6 \frac{3}{4}\right)$
c. $-3 \frac{5}{8}-1 \frac{1}{2}$
d. $-7+\frac{2}{3}$

2-73. Complete the table below. Then write the corresponding equation.

| $\operatorname{IN}(x)$ | 2 | 4 | 6 | 7 |  | 10 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| OUT $(y)$ | -7 | -17 |  |  | -37 |  |

## 2-74. MATCH-A-GRAPH

Match the following graphs with their equations. Pay special attention to the scaling of each set of axes. Explain how you found each match.
a. $y=\frac{1}{4} x+4$
b. $y=\frac{1}{2} x+4$
c. $y=2 x+4$
d. $y=-\frac{2}{3} x+4$
1.


3.
2.

4.


