Linear Graphs

T1

This problem gives you the chance to:

- show knowledge and understanding of linear graphs

Here are the equations of some linear graphs.

$y = 3$

$y = 2x + 6$

$2y + x = 0$ $\quad 2y = -x \quad y = -\frac{1}{2}x$

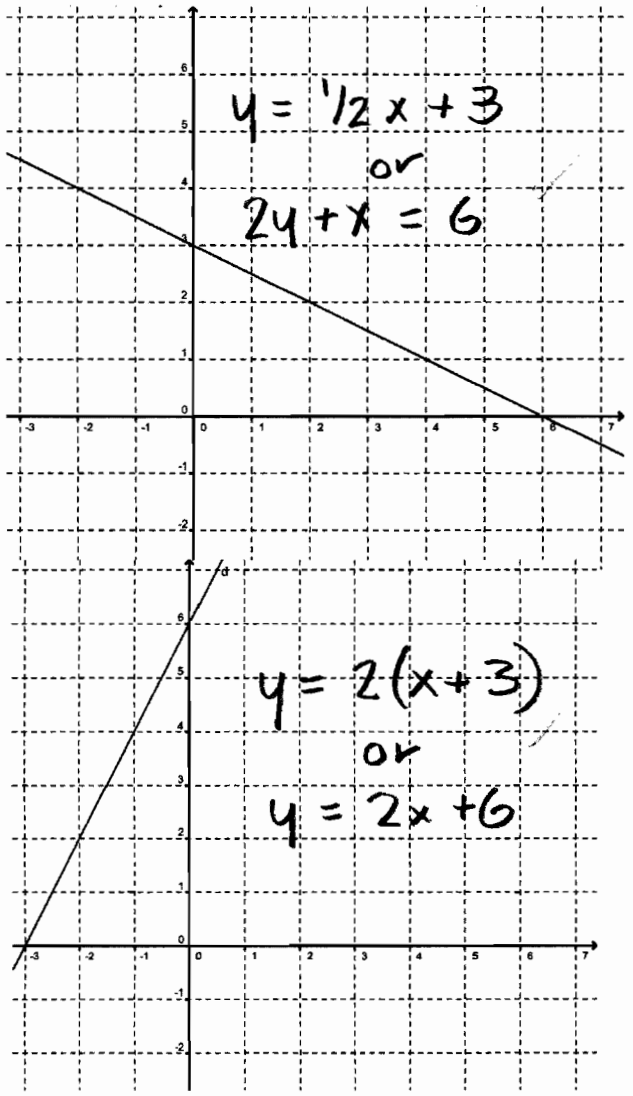
$y = \frac{1}{3}x$

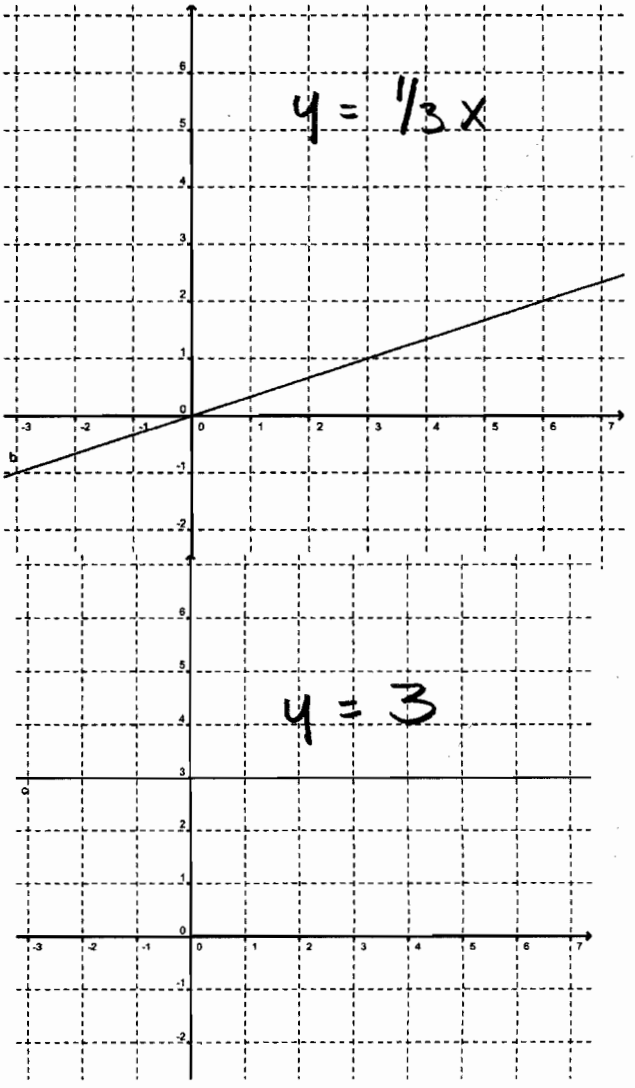
$2y + x = 6$

1. Four of the graphs are drawn below.

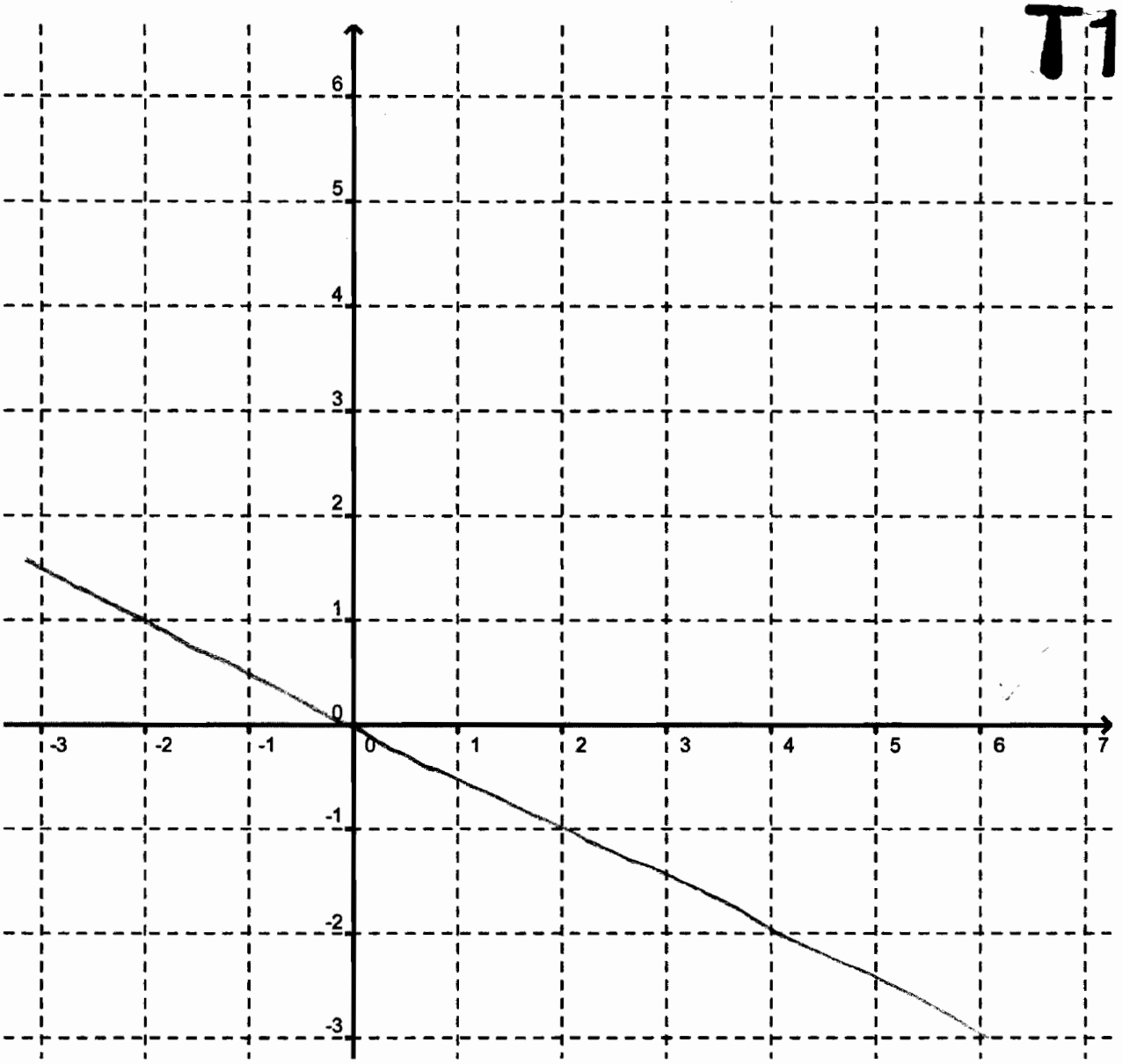
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





T1



2. a. Which equation could represent the speed of someone walking steadily? $y = 1/3x$
Explain your reasoning.

This is time on the x and distance on y.
They are going slow at 1/3 mile in 1 hour.

b. Which equation could represent the conversion between two different monetary currencies?

$y = 1/3x$

8

Linear Graphs

T2

This problem gives you the chance to:

- show knowledge and understanding of linear graphs

Here are the equations of some linear graphs.

$2y + x = 0$

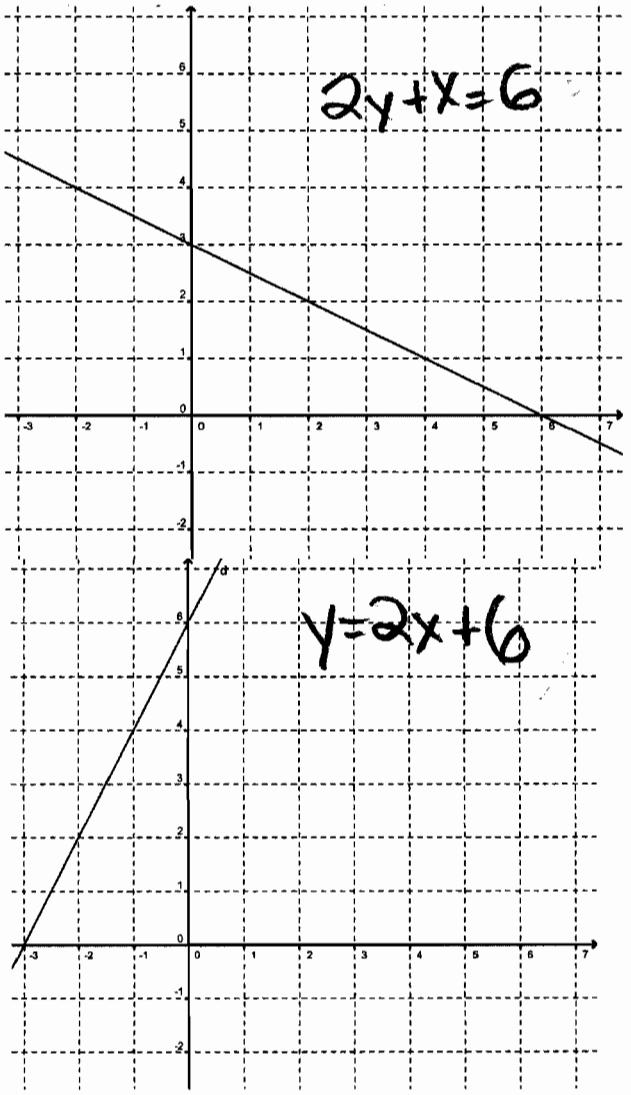
$y = \frac{1}{3}x$

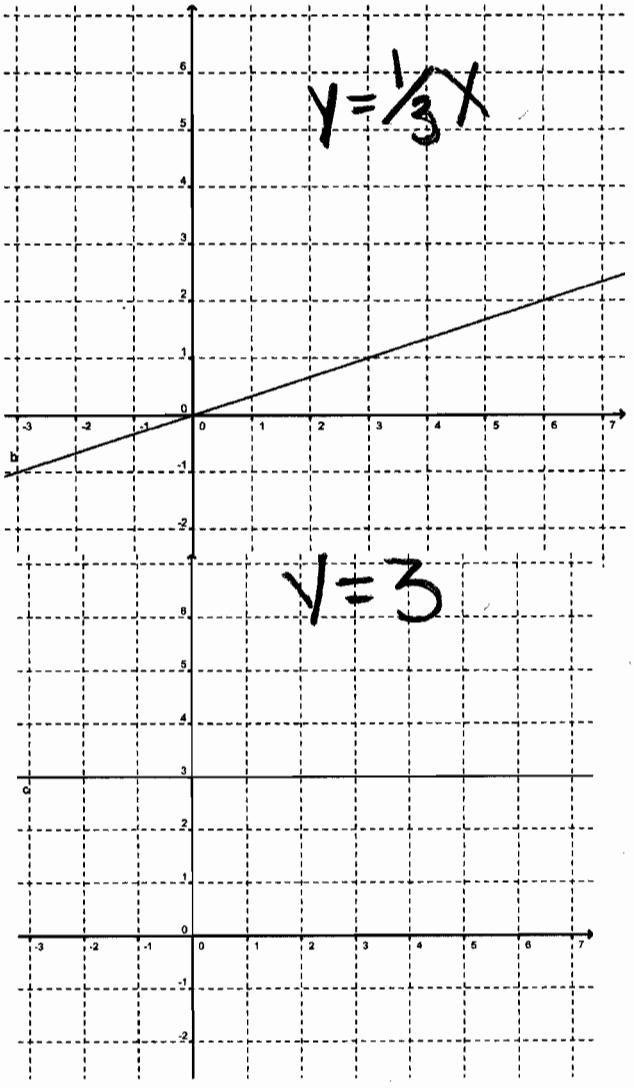
$2y + x = 6$

1. Four of the graphs are drawn below.

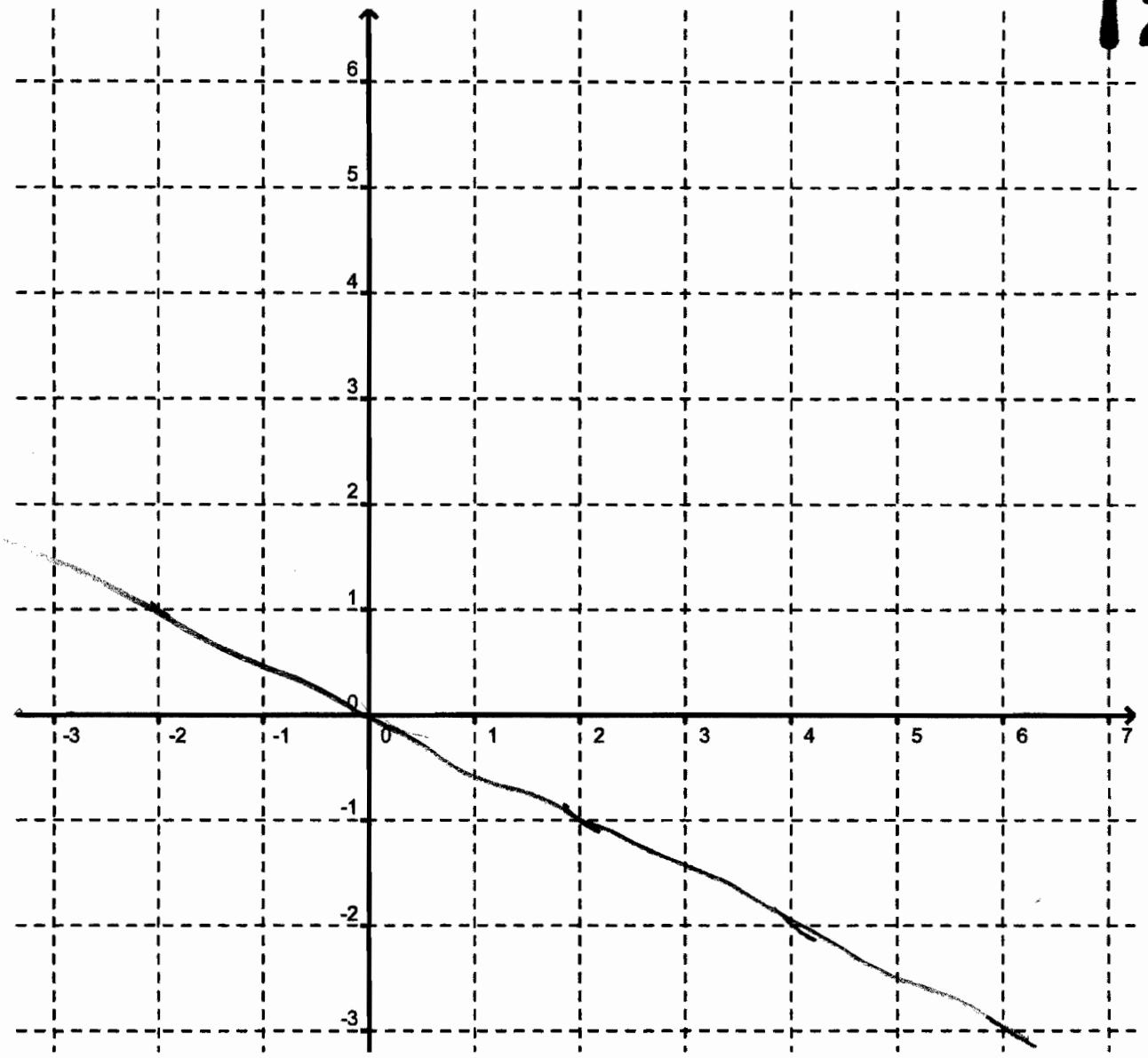
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





T2



2. a. Which equation could represent the speed of someone walking steadily? $y=\frac{1}{3}x$
Explain your reasoning.

because the graph is going at a equale rate.

b. Which equation could represent the conversion between two different monetary currencies?

$y=2x+6$

8

Linear Graphs

T3

This problem gives you the chance to:
- show knowledge and understanding of linear graphs

Here are the equations of some linear graphs.

~~$y = 3$~~

~~$y = 2x + 6$~~

~~$2y + x = 0$~~

~~$y = \frac{1}{3}x$~~

$2y + x = 6$

$-x \quad -x$

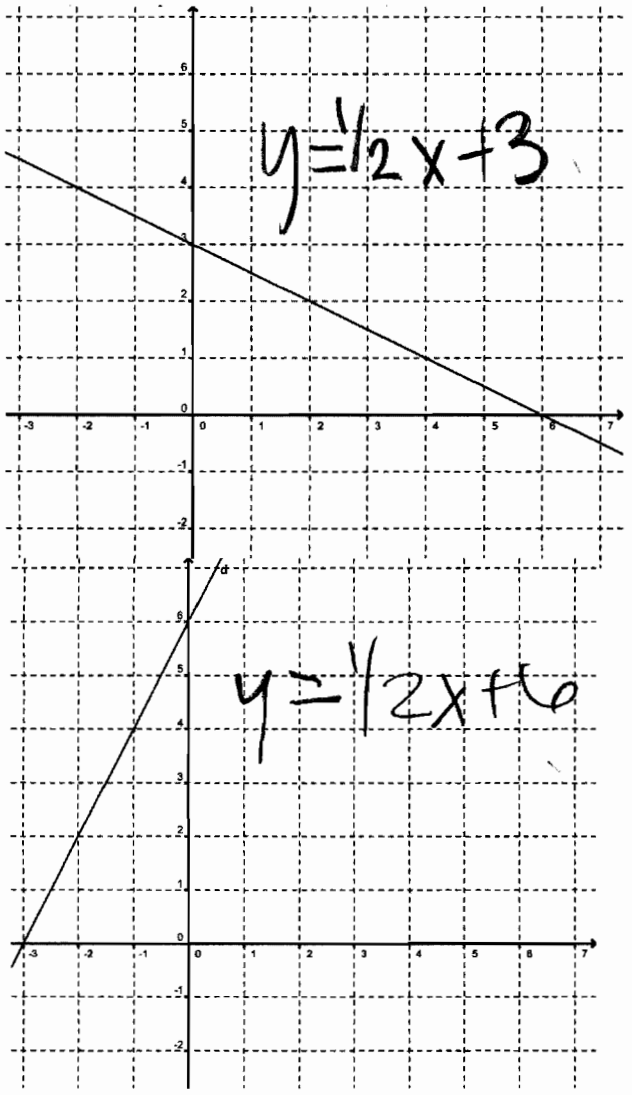
$\frac{2y}{2} = \frac{6 - x}{2}$

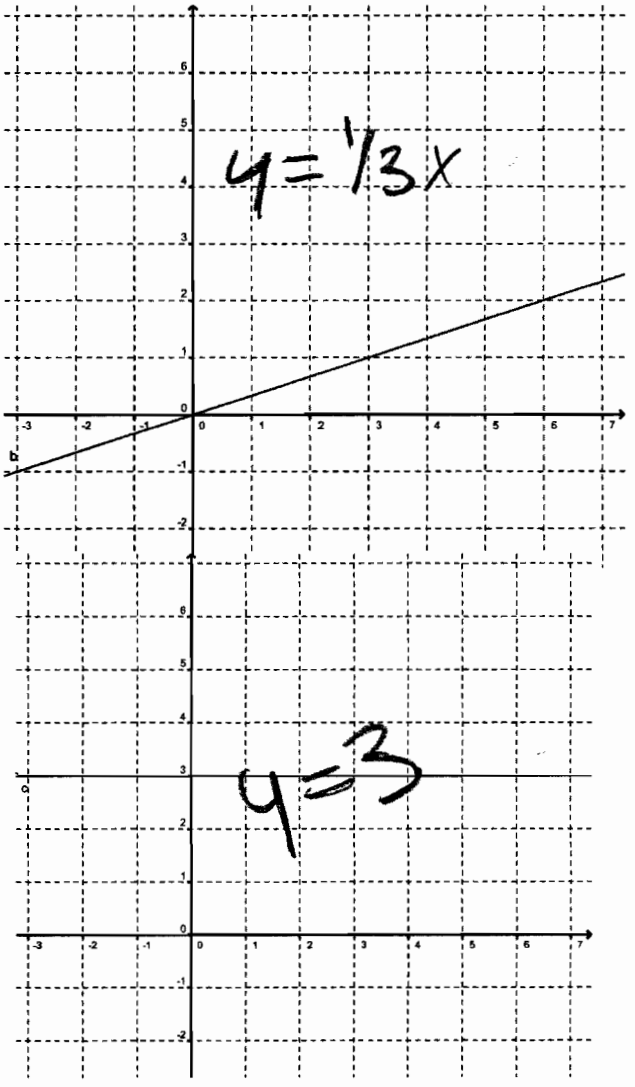
$y = 3 - \frac{1}{2}x$

1. Four of the graphs are drawn below.

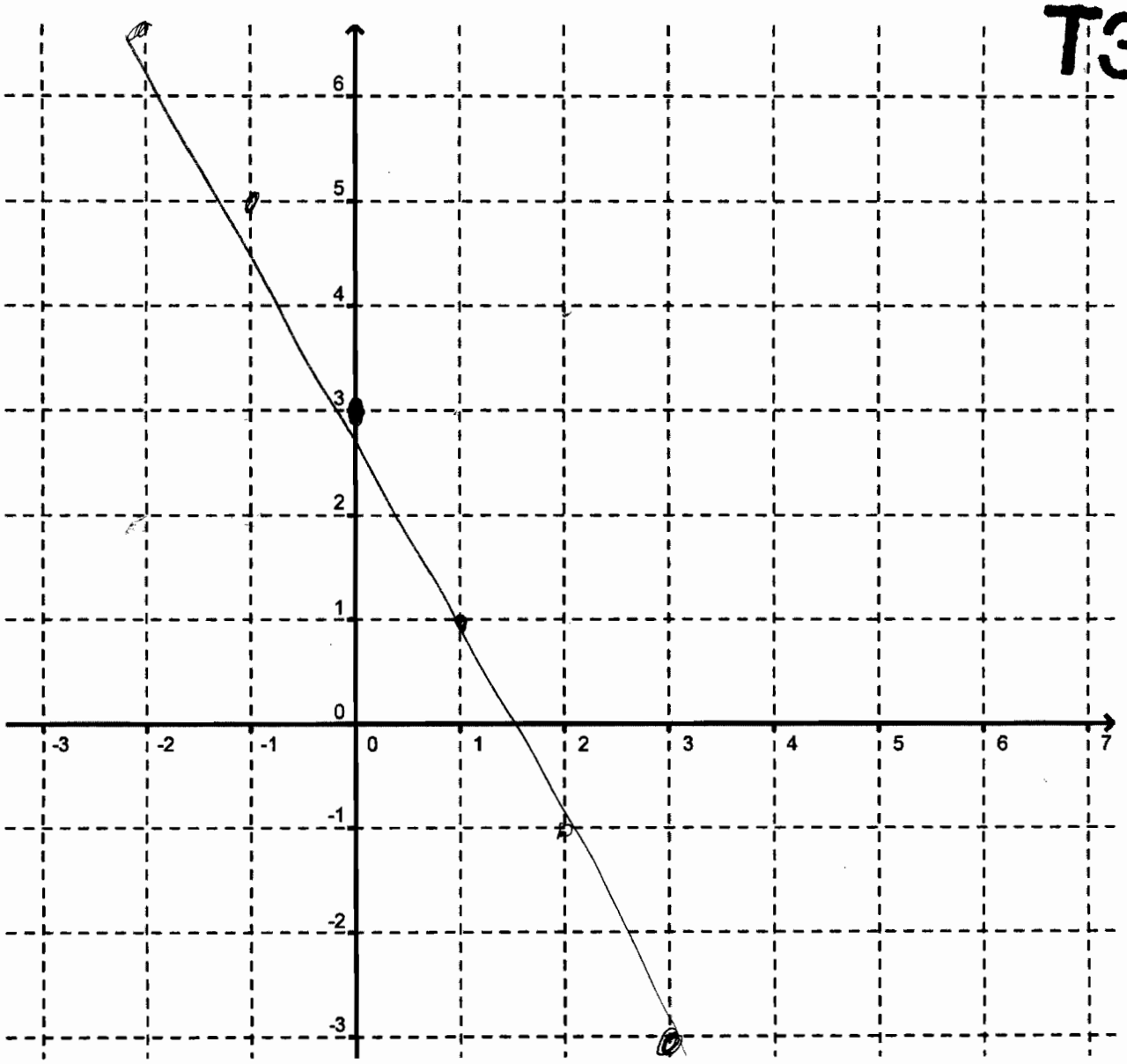
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





T3



2. a. Which equation could represent the speed of someone walking steadily? $2y+x=6$
Explain your reasoning.

because its the one above and none of them really look like it maybe $y=3$ because its constant at 3.

b. Which equation could represent the conversion between two different monetary currencies?

$y=1/3x$

8

Linear Graphs

T4

This problem gives you the chance to:

- Show knowledge and understanding of linear graphs

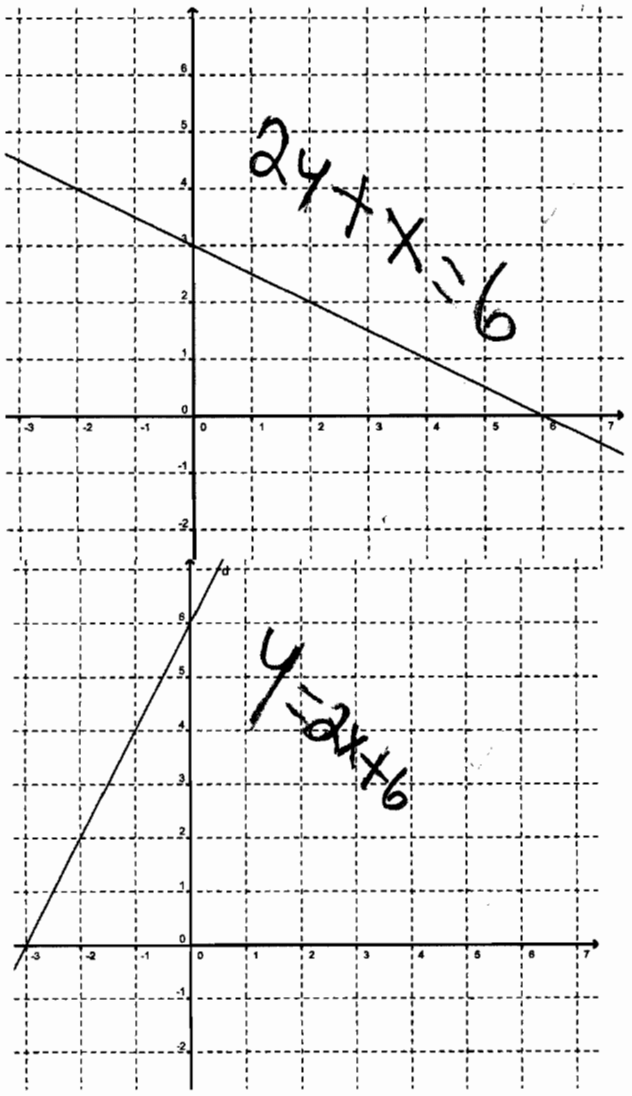
Here are the equations of some linear graphs.

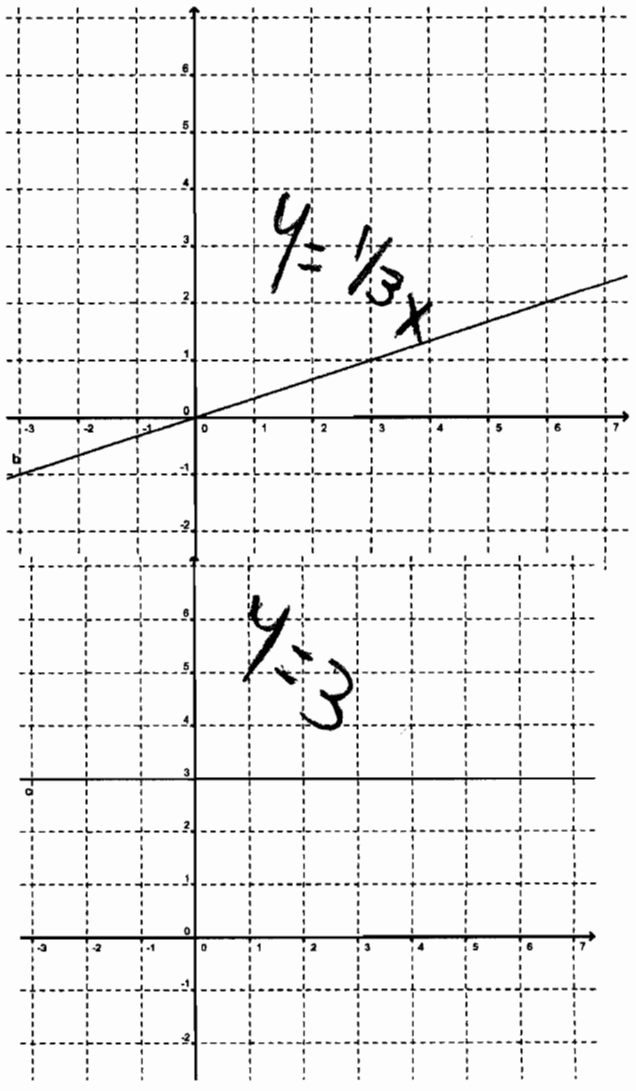
$$y = 3$$
$$y = 2x + 6$$
$$2y + x = 0$$
$$y = \frac{1}{3}x$$
$$2y + x = 6$$

1. Four of the graphs are drawn below.

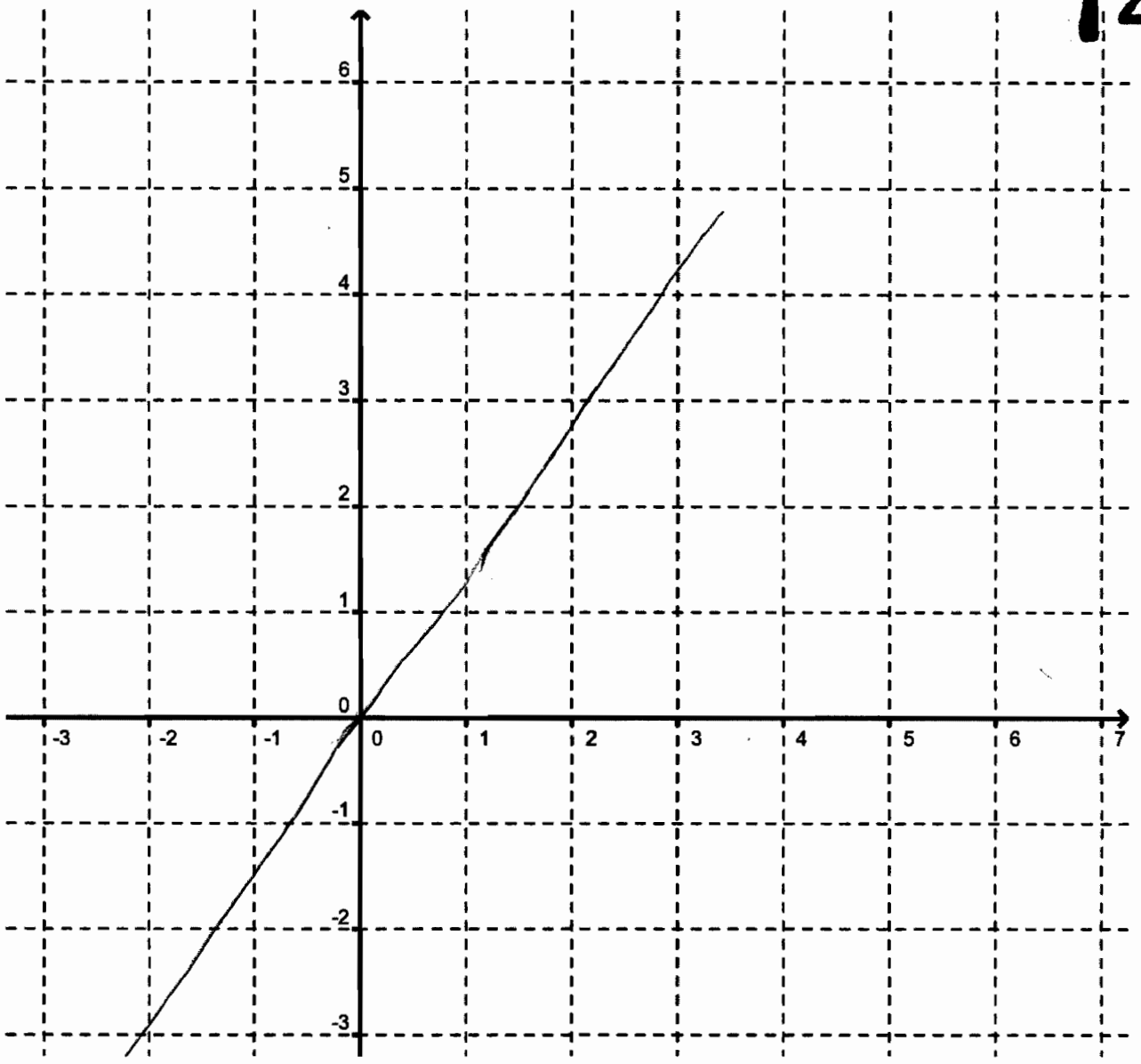
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





T4



2. a. Which equation could represent the speed of someone walking steadily? $y=3$
Explain your reasoning.

Because they are walking a speed of 3 constantly.

b. Which equation could represent the conversion between two different monetary currencies?

$y=2x+6$

8

Linear Graphs

T5

This problem gives you the chance to:

- Show knowledge and understanding of linear graphs

Here are the equations of some linear graphs.

$y = 3x$

$y = 2x + 6$

$2y + x = 0$ $\quad \frac{2y}{2} = \frac{0 - x}{2}$ $\quad y = 0 - \frac{1}{2}x$

$y = \frac{1}{3}x$

$2y + x = 6$

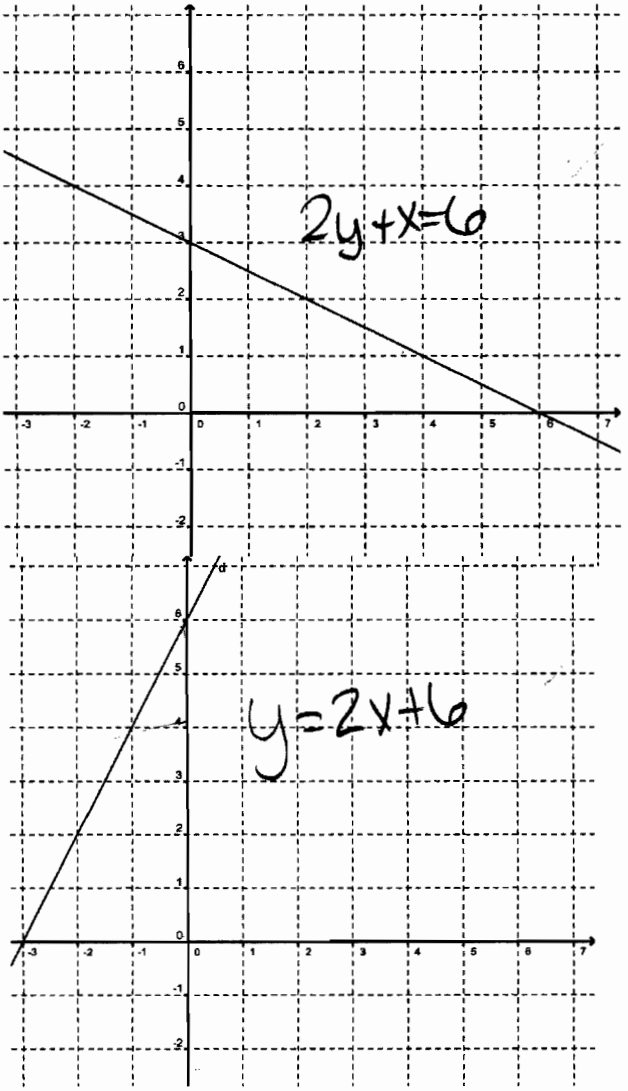
$-x \quad -x$

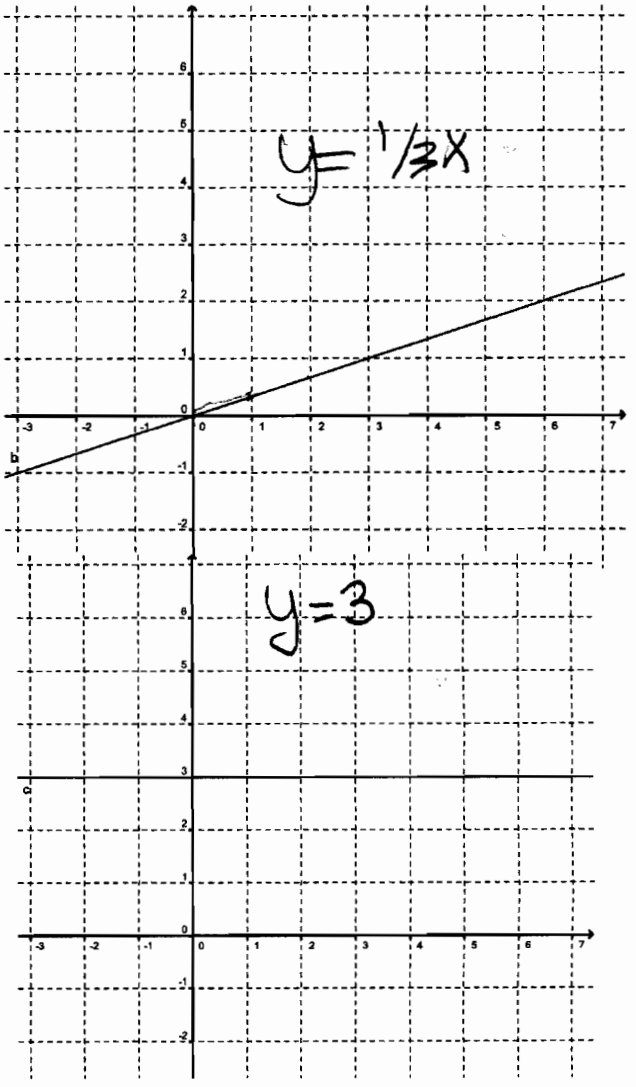
$\frac{2y}{2} = \frac{6 - x}{2}$ $\quad y = 3 - \frac{1}{2}x$

1. Four of the graphs are drawn below.

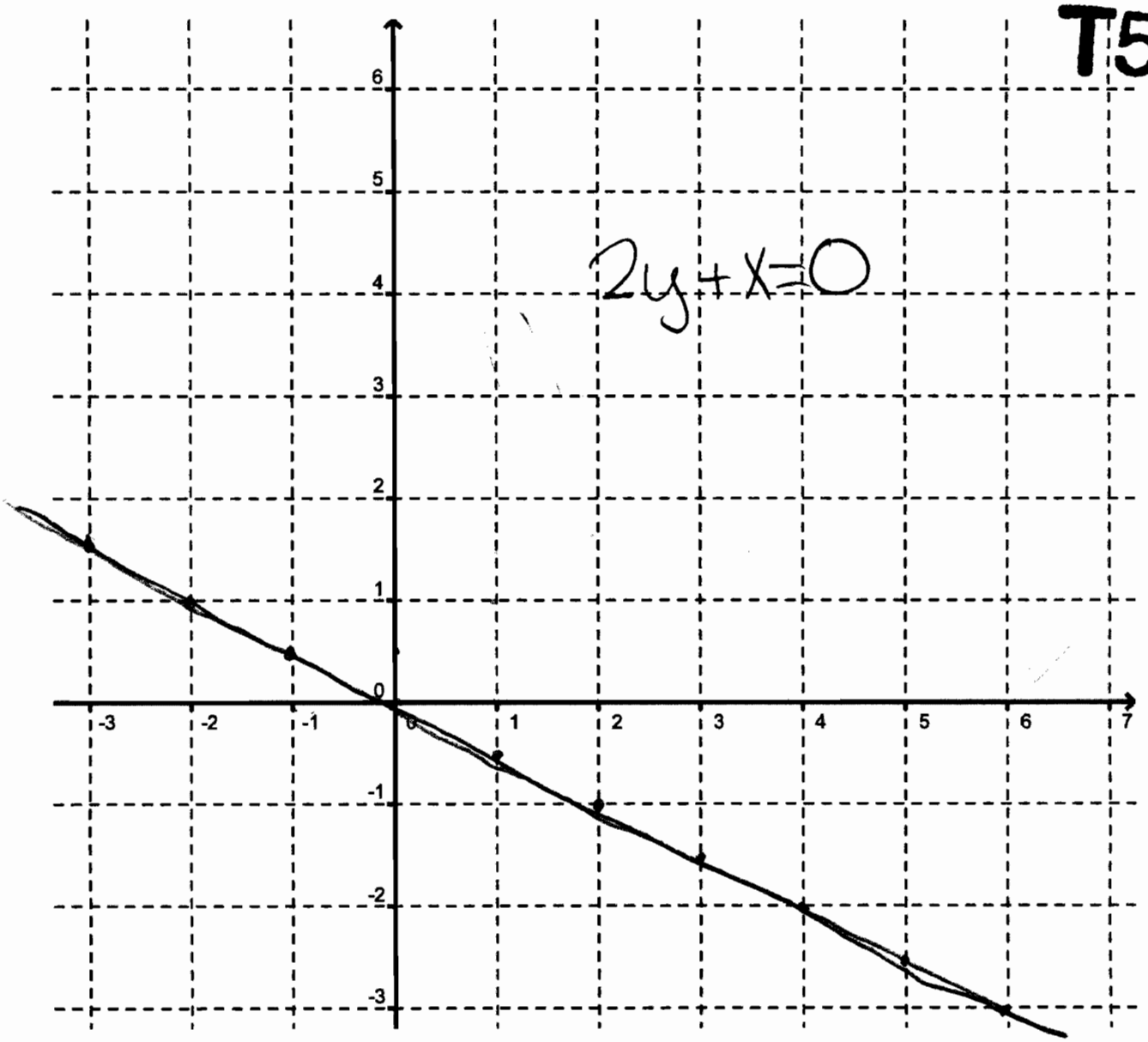
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





T5



2. a. Which equation could represent the speed of someone walking steadily? Explain your reasoning.

y = 2x

because the slope doesn't change, the speed wont change. this person is walking 2 ft per sec.

b. Which equation could represent the conversion between two different monetary currencies?

y = 1/3x

Linear Graphs

S1

This problem gives you the chance to:
- show knowledge and understanding of linear graphs

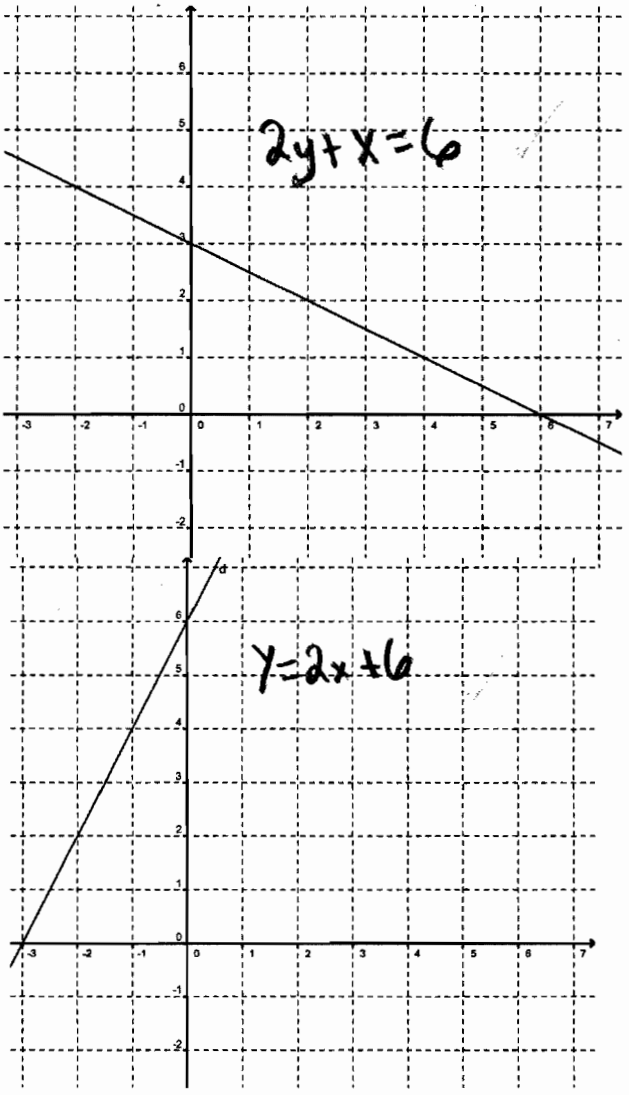
Here are the equations of some linear graphs.

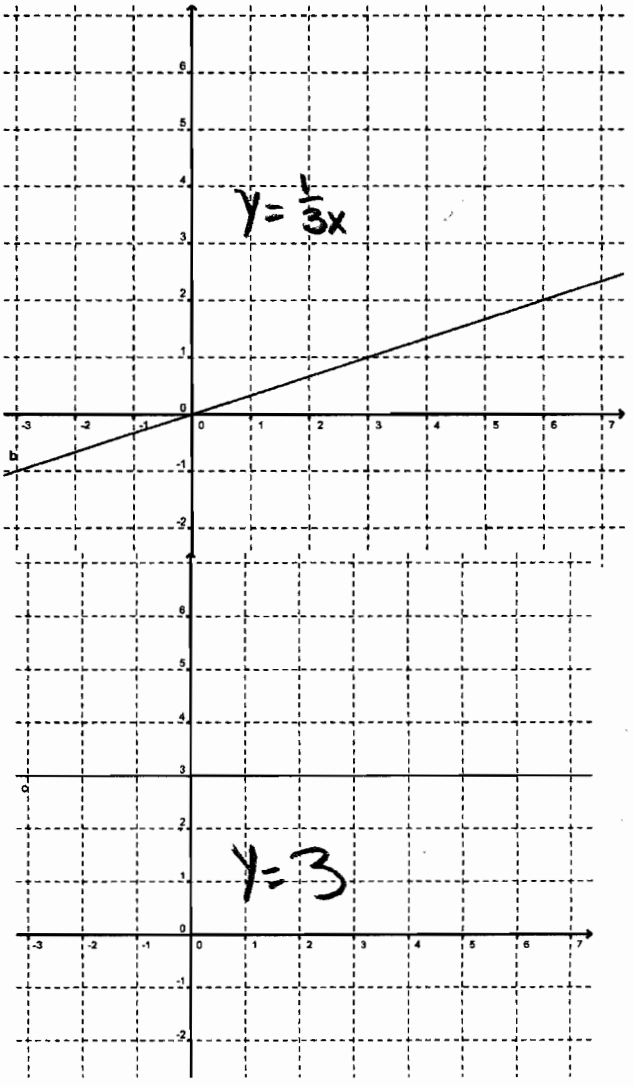
$$y = 3$$
$$y = 2x + 6$$
$$2y + x = 0$$
$$y = \frac{1}{3}x$$
$$2y + x = 6$$

1. Four of the graphs are drawn below.

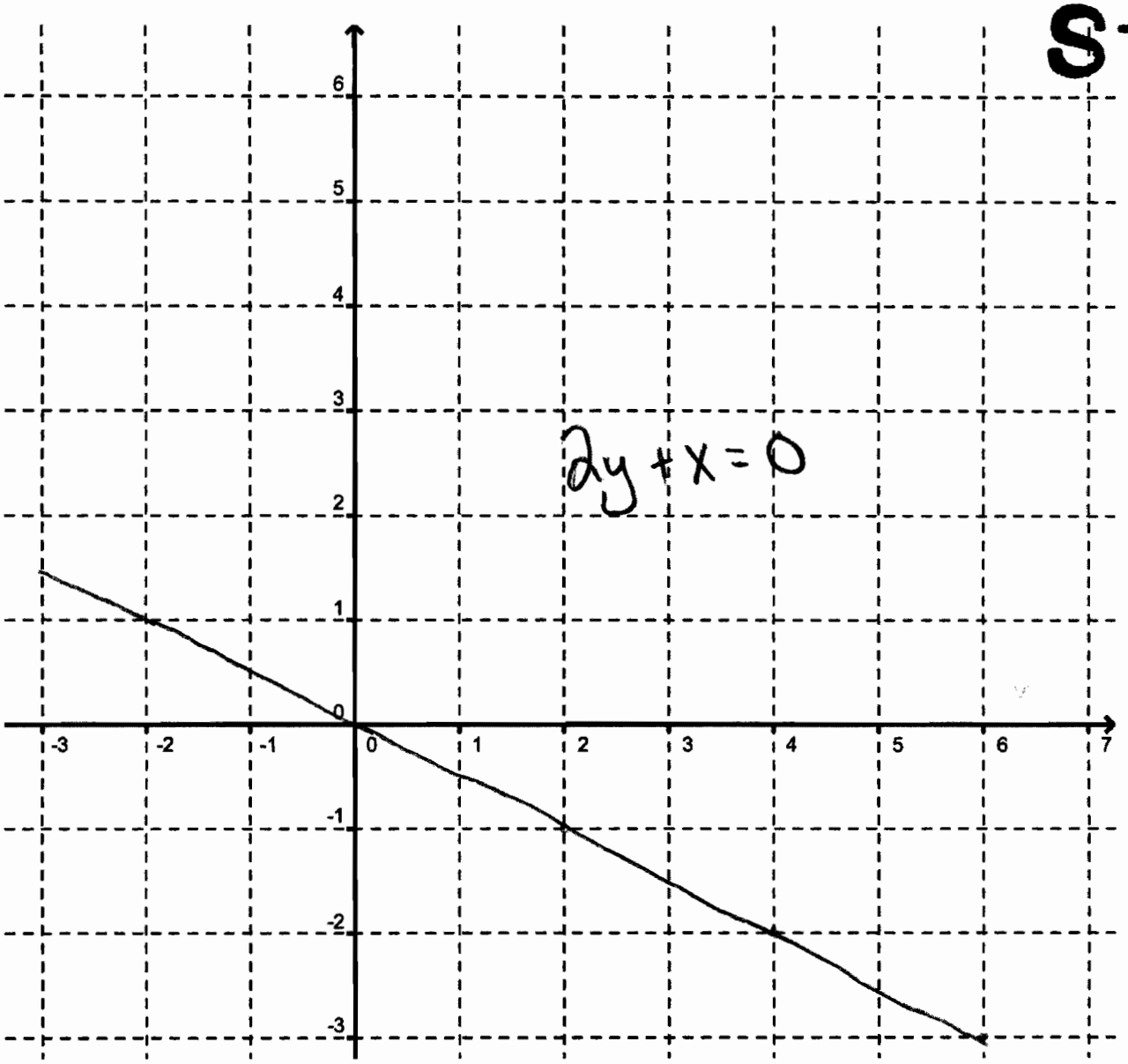
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





S1



2. a. Which equation could represent the speed of someone walking steadily? $y = \frac{1}{3}x$
Explain your reasoning.

Because it is one of the only 2 positive slopes and the other one is to steep so you would have to run.

b. Which equation could represent the conversion between two different monetary currencies?

$y = \frac{1}{3}x$

8

Linear Graphs

This problem gives you the chance to:
- show knowledge and understanding of linear graphs

S2

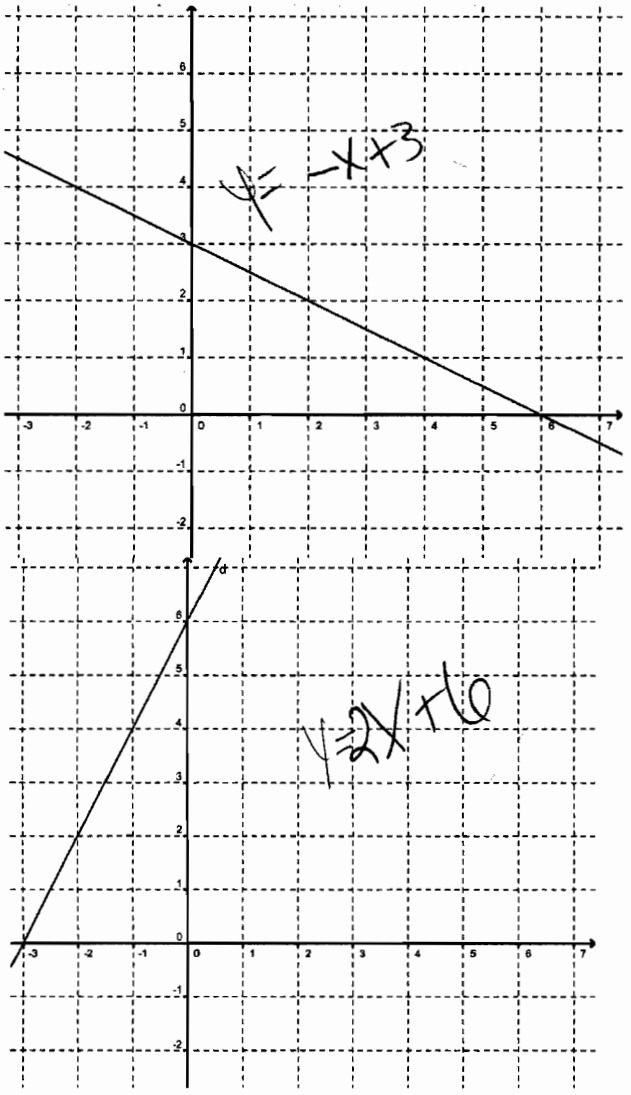
Here are the equations of some linear graphs.

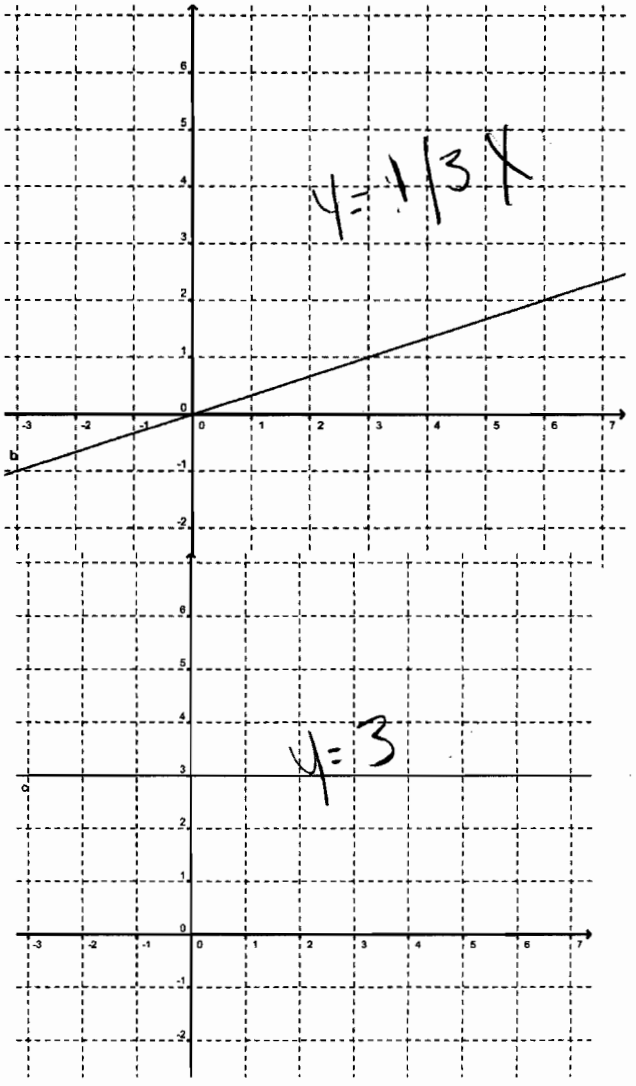
$$y = 3$$
$$y = 2x + 6$$
$$2y + x = 0$$
$$y = \frac{1}{3}x$$
$$2y + x = 6$$

1. Four of the graphs are drawn below.

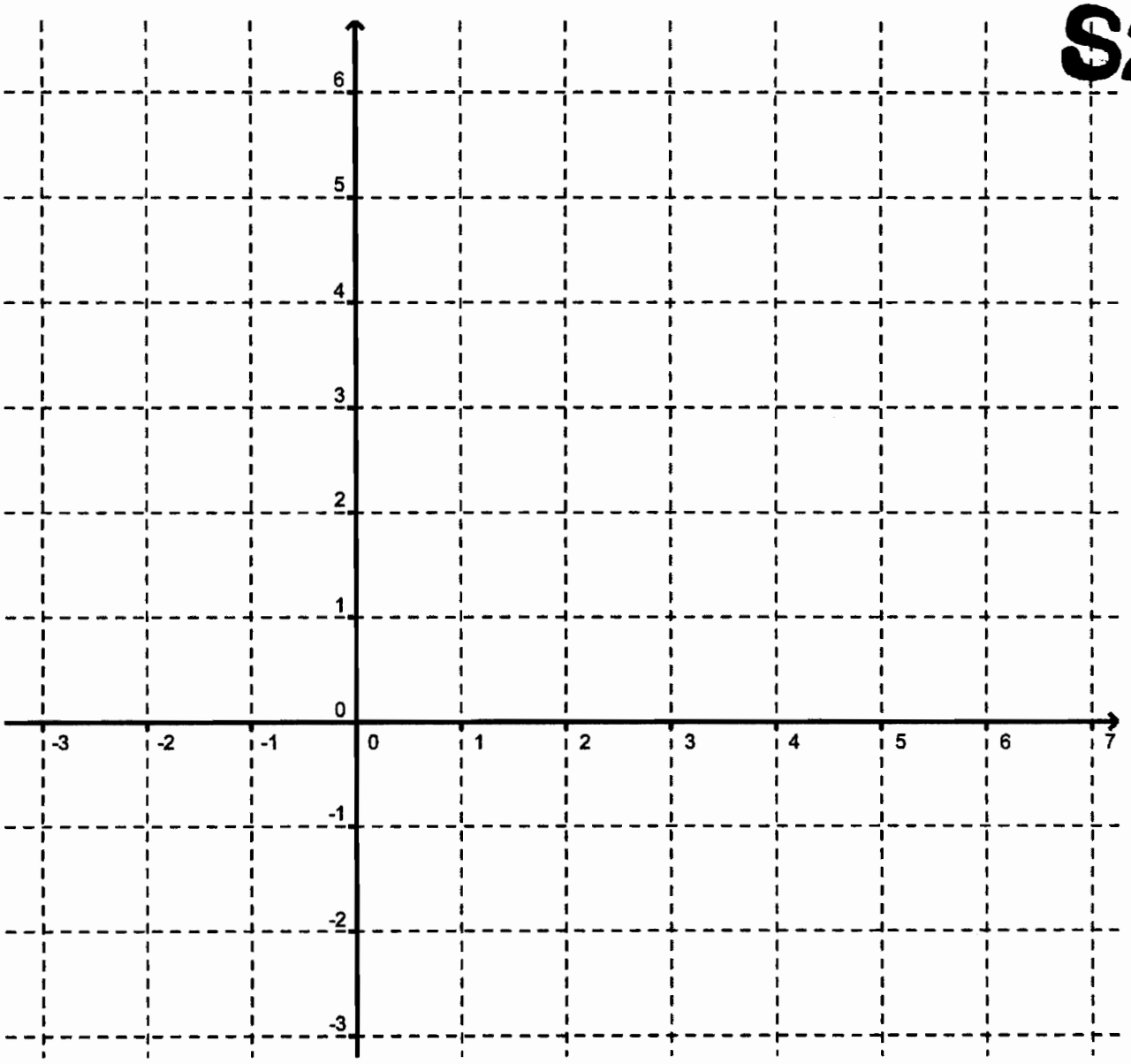
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





S2



2. a. Which equation could represent the speed of someone walking steadily? $y=3$
Explain your reasoning.

Because the time would be steady and the speed would be, also,

b. Which equation could represent the conversion between two different monetary currencies?

$y=-x+3$

8

Linear Graphs

S3

This problem gives you the chance to:
- show knowledge and understanding of linear graphs

Here are the equations of some linear graphs.

$y = 3$

$y = 2x + 6$

$2y + x = 0$

$y = \frac{1}{3}x$

$2y + x = 6$

$2y + x = 0$

$-x \quad -x$

$\frac{2y}{2} = \frac{0}{2} - \frac{x}{2}$

$y = 0 - x/2$

1. Four of the graphs are drawn below.

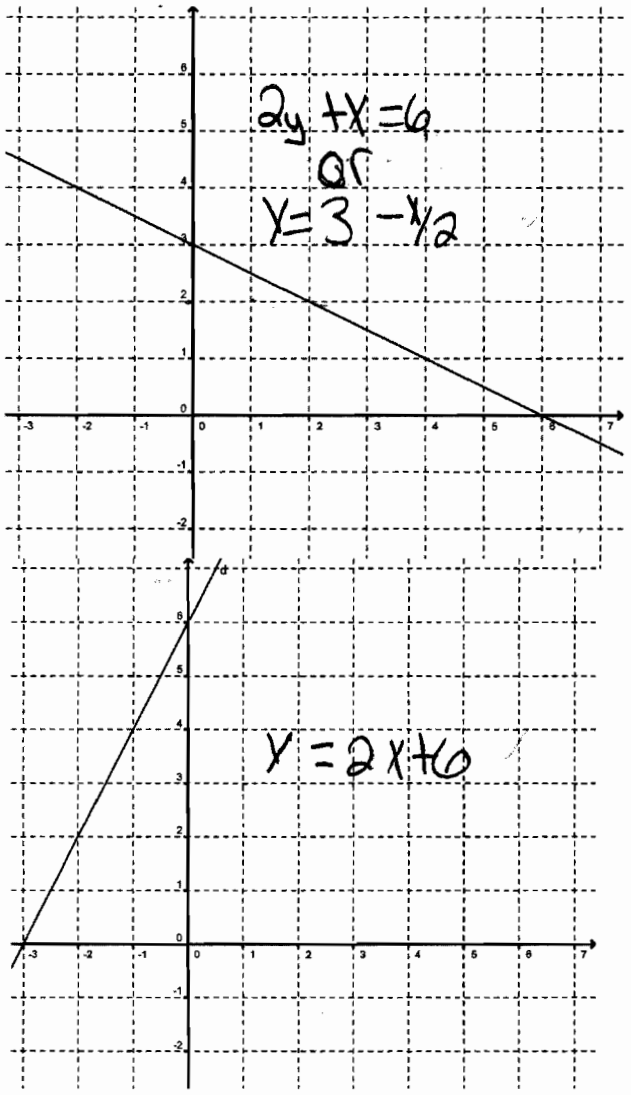
   a. Write the correct equation on each graph.

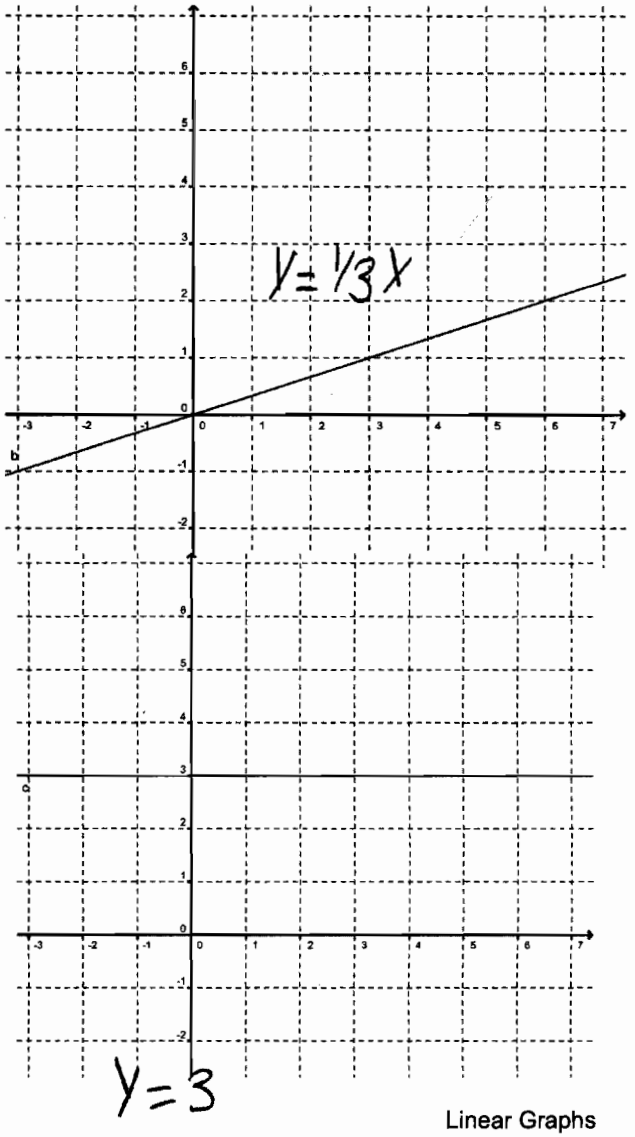
$2y + x = 6$

$-x \quad -x$

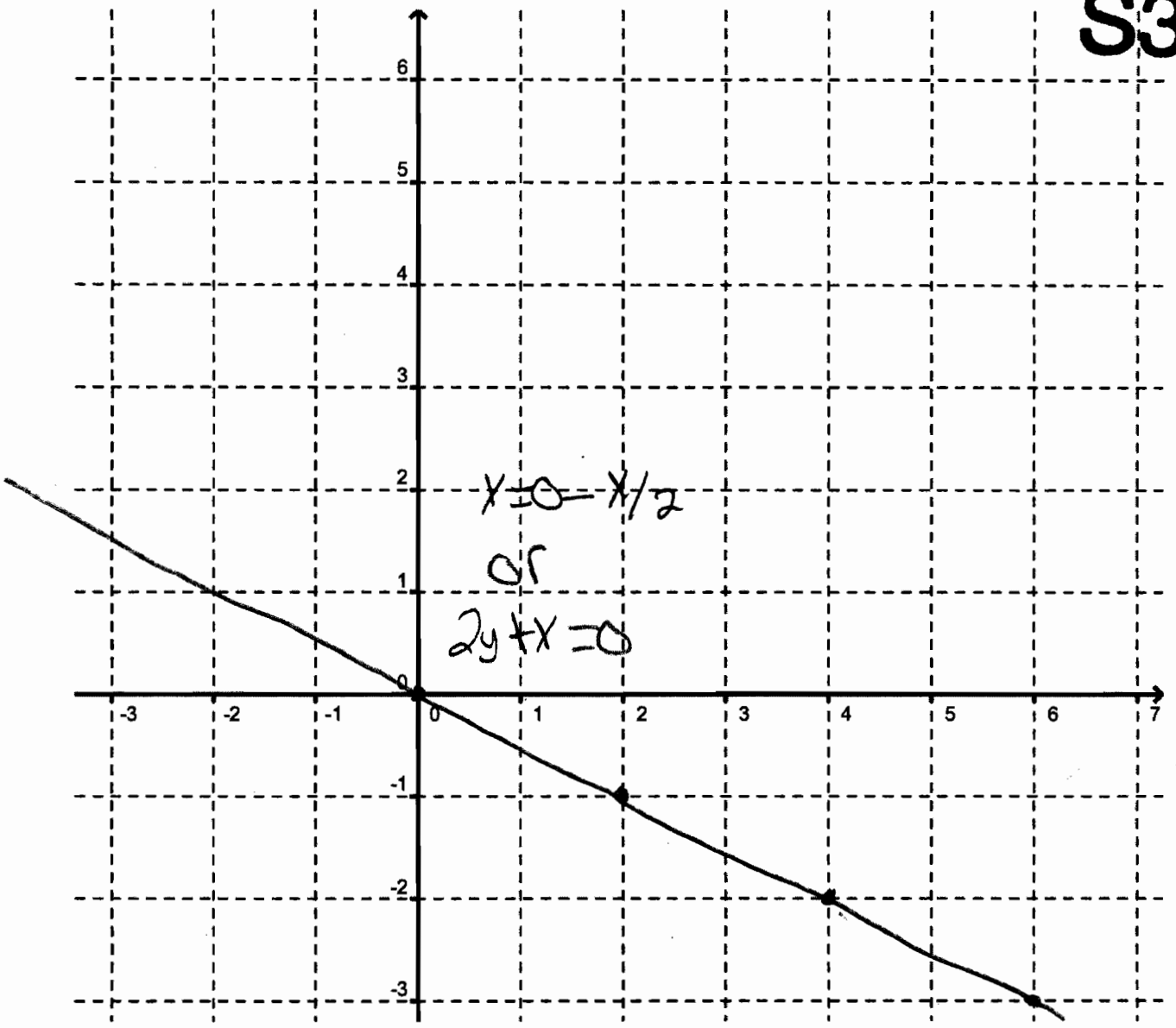
$\frac{2y}{2} = \frac{6}{2} - \frac{x}{2}$ $\quad y = 3 - x/2$

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





S3



2. a. Which equation could represent the speed of someone walking steadily? Y=3

Explain your reasoning.

because, it's a straight line.

b. Which equation could represent the conversion between two different monetary currencies?

Y=0-X/2

Linear Graphs

This problem gives you the chance to:
- show knowledge and understanding of linear graphs

S4

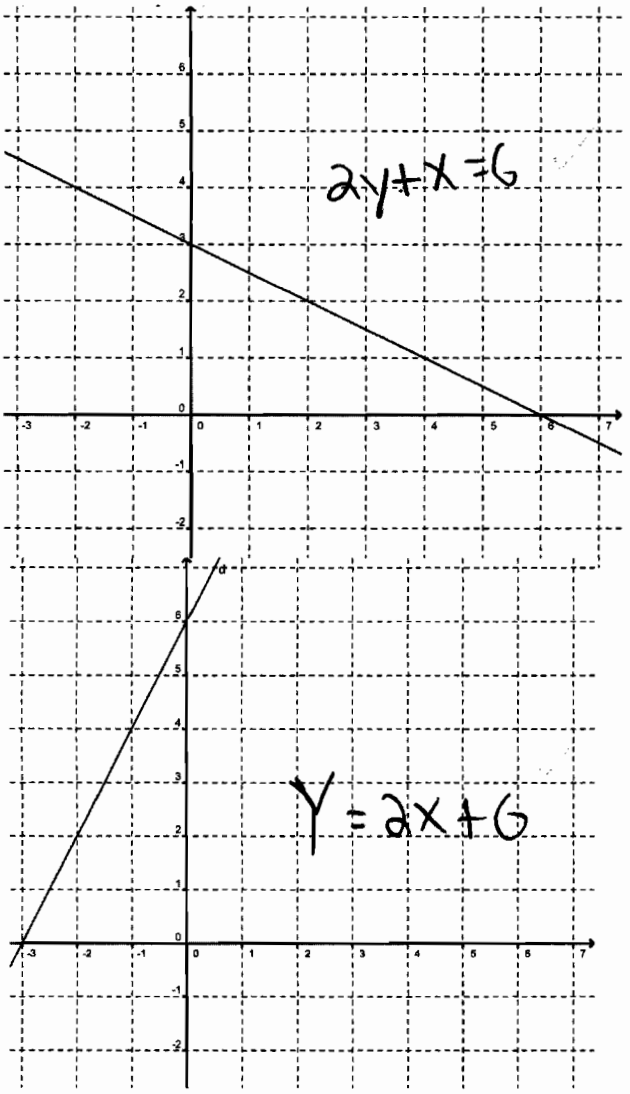
Here are the equations of some linear graphs.

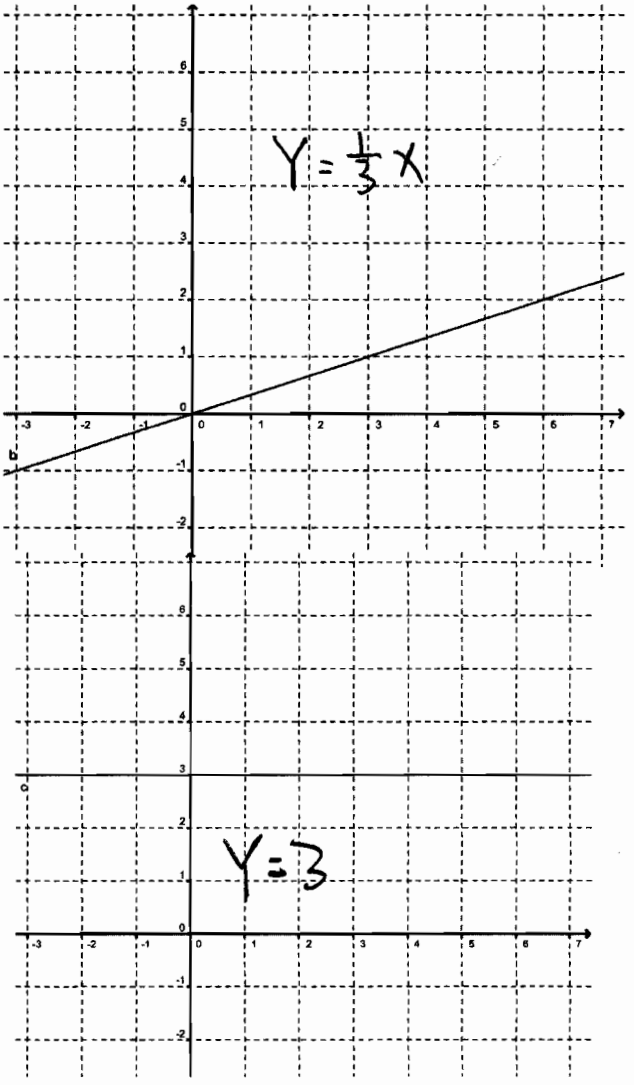
$$y = 3$$
$$y = 2x + 6$$
$$2y + x = 0$$
$$y = \frac{1}{3}x$$
$$2y + x = 6$$

1. Four of the graphs are drawn below.

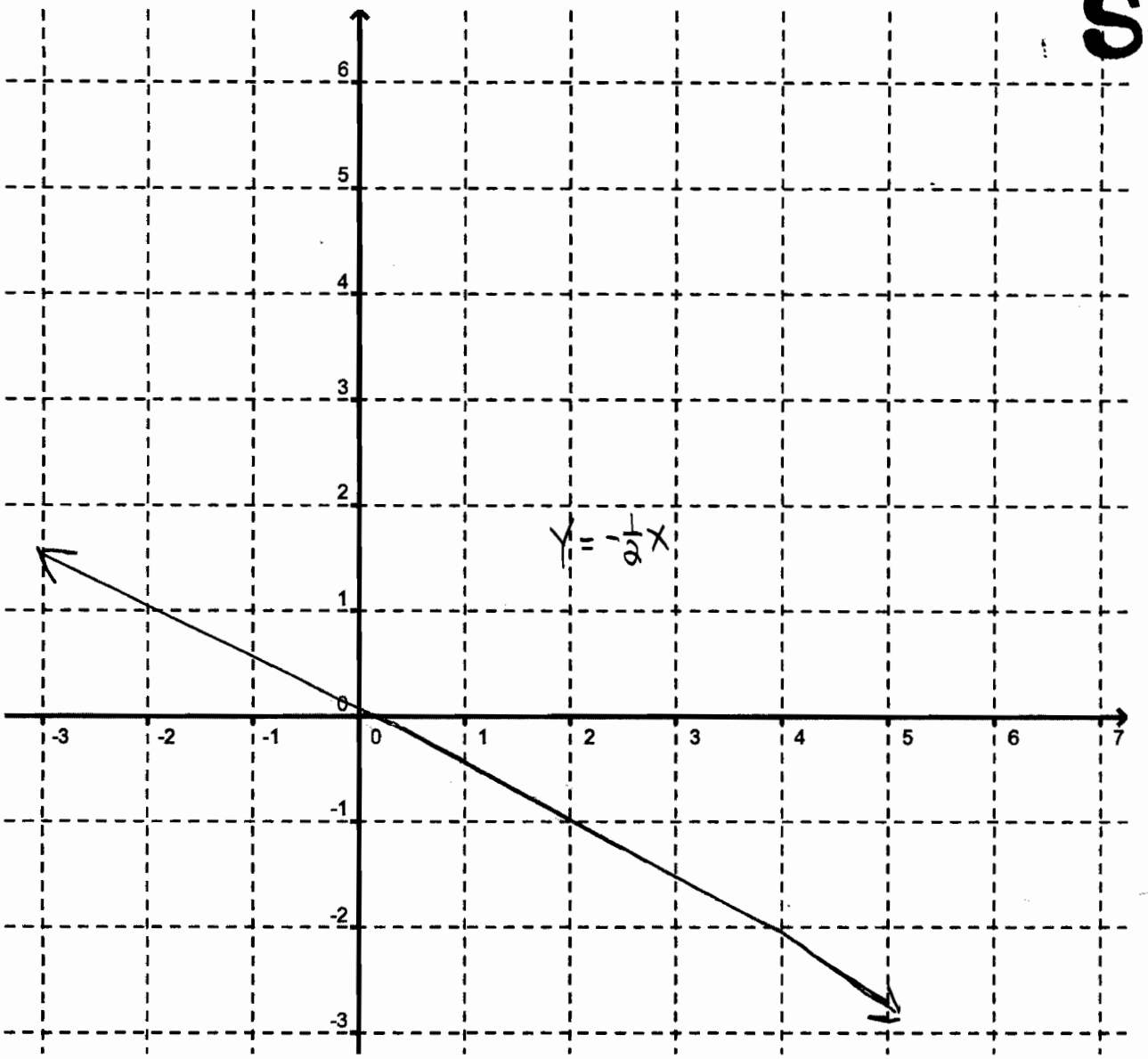
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





S4



2. a. Which equation could represent the speed of someone walking steadily? Y=3 because Explain your reasoning.

X could be time while Y is speed.

b. Which equation could represent the conversion between two different monetary currencies?

$Y = \frac{1}{3}X$

8

Linear Graphs

This problem gives you the chance to:
- show knowledge and understanding of linear graphs

S5

Here are the equations of some linear graphs.

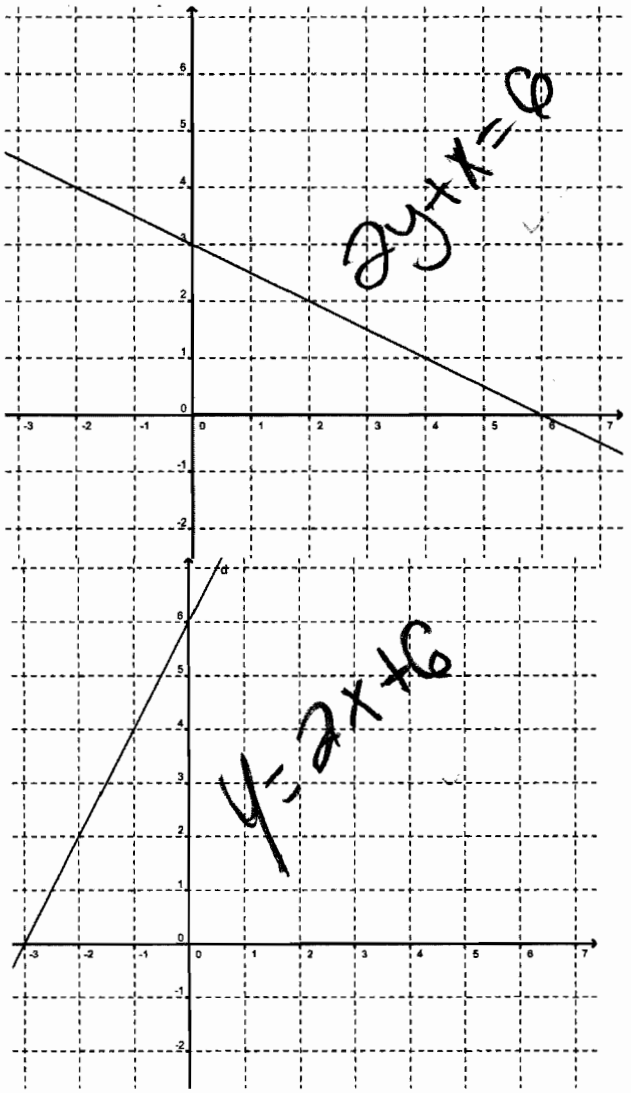
~~$y = 3$~~
~~$y = 2x + 6$~~
$2y + x = 0$
~~$y = \frac{1}{3}x$~~
~~$2y + x = 6$~~

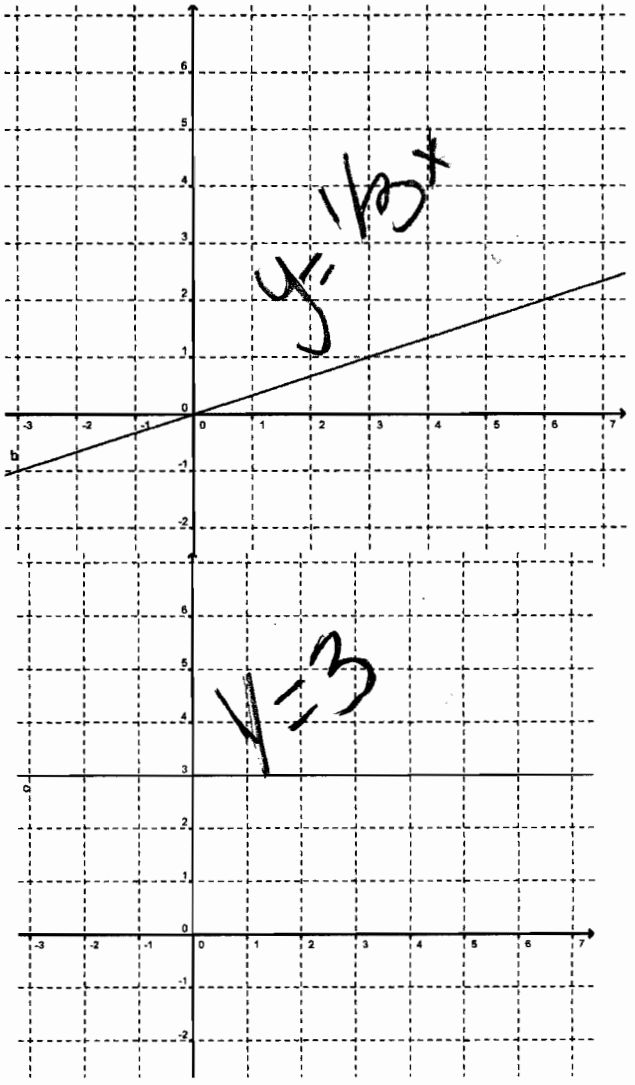
$2y + x = 0$
$-x$
$\frac{2y}{2} = \frac{0 - x}{2}$

1. Four of the graphs are drawn below.

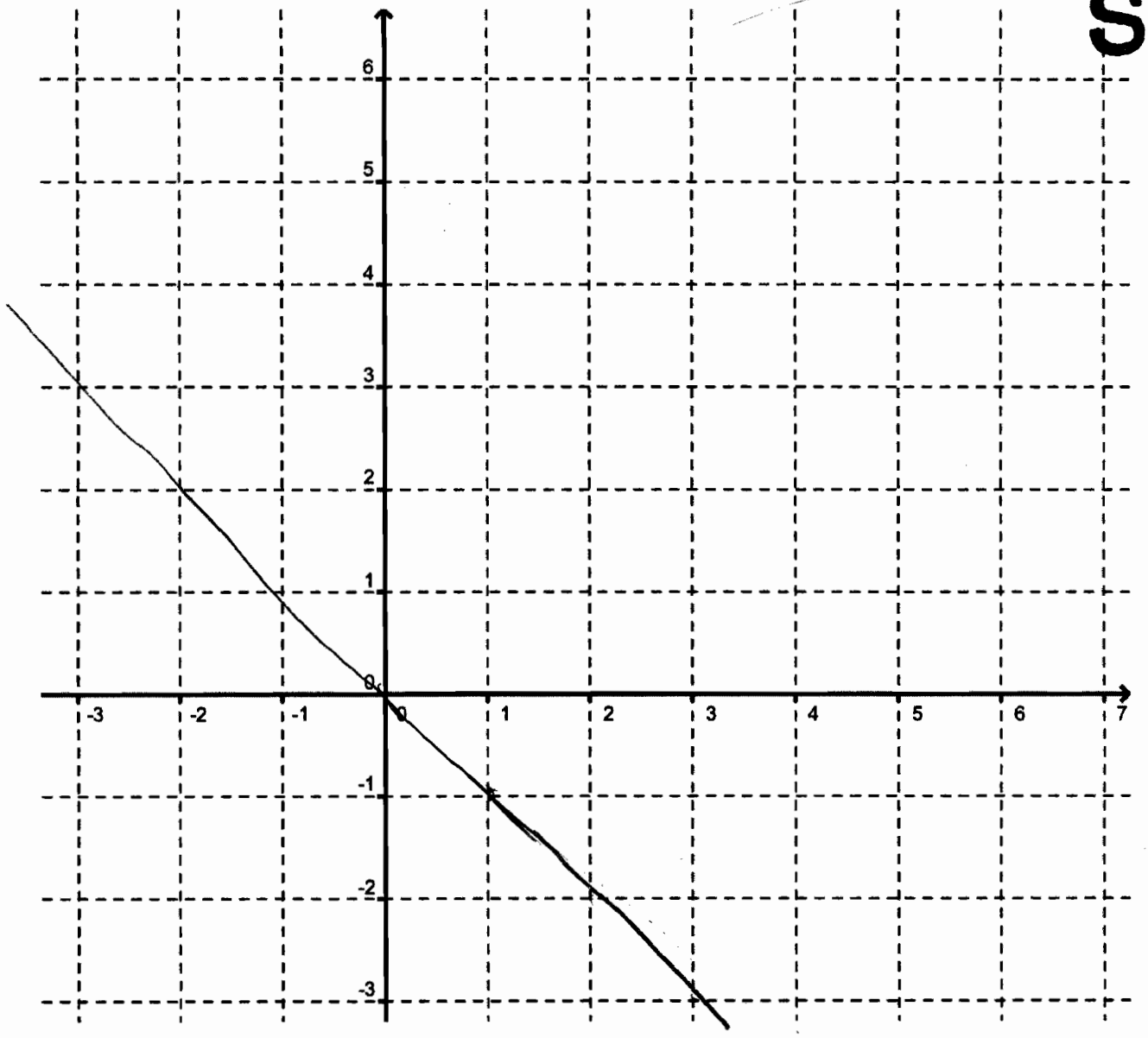
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





S5



2. a. Which equation could represent the speed of someone walking steadily? _____
Explain your reasoning.

y = 1/3x, because It's the only graph that would make sense to me!!!

b. Which equation could represent the conversion between two different monetary currencies?

y = 1/3 x

8

Linear Graphs

This problem gives you the chance to:
- show knowledge and understanding of linear graphs

S6

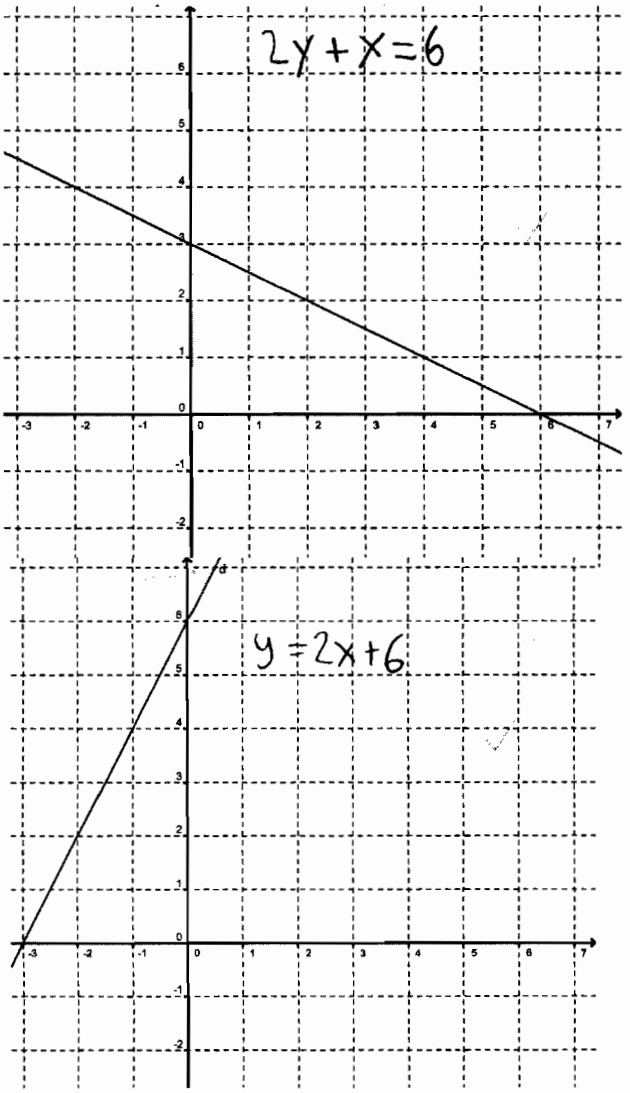
Here are the equations of some linear graphs.

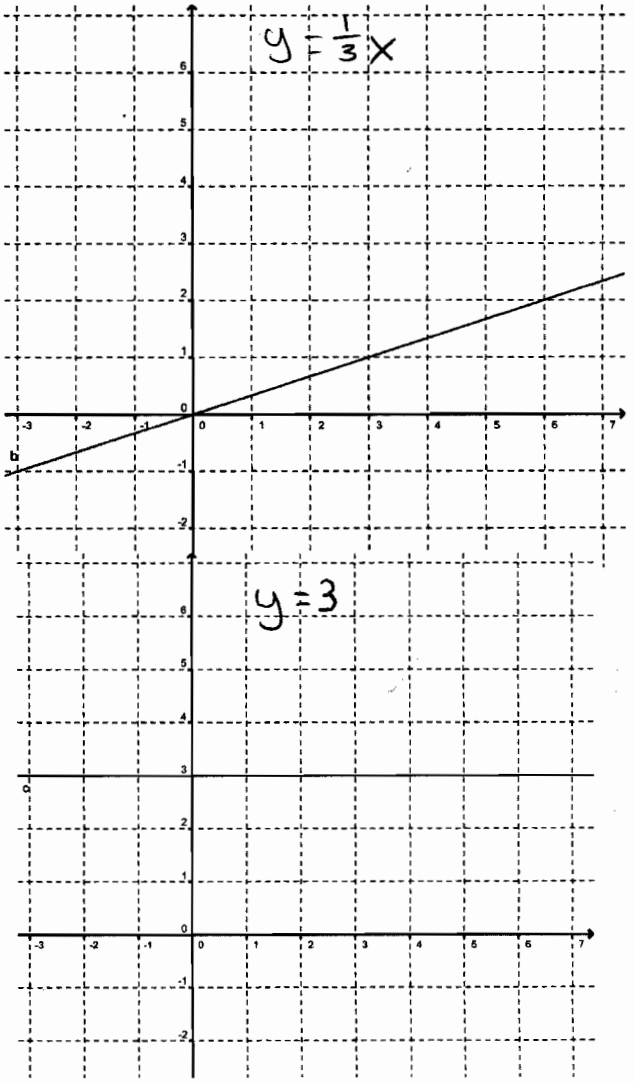
$$y = 3$$
$$y = 2x + 6$$
$$2y + x = 0$$
$$y = \frac{1}{3}x$$
$$2y + x = 6$$

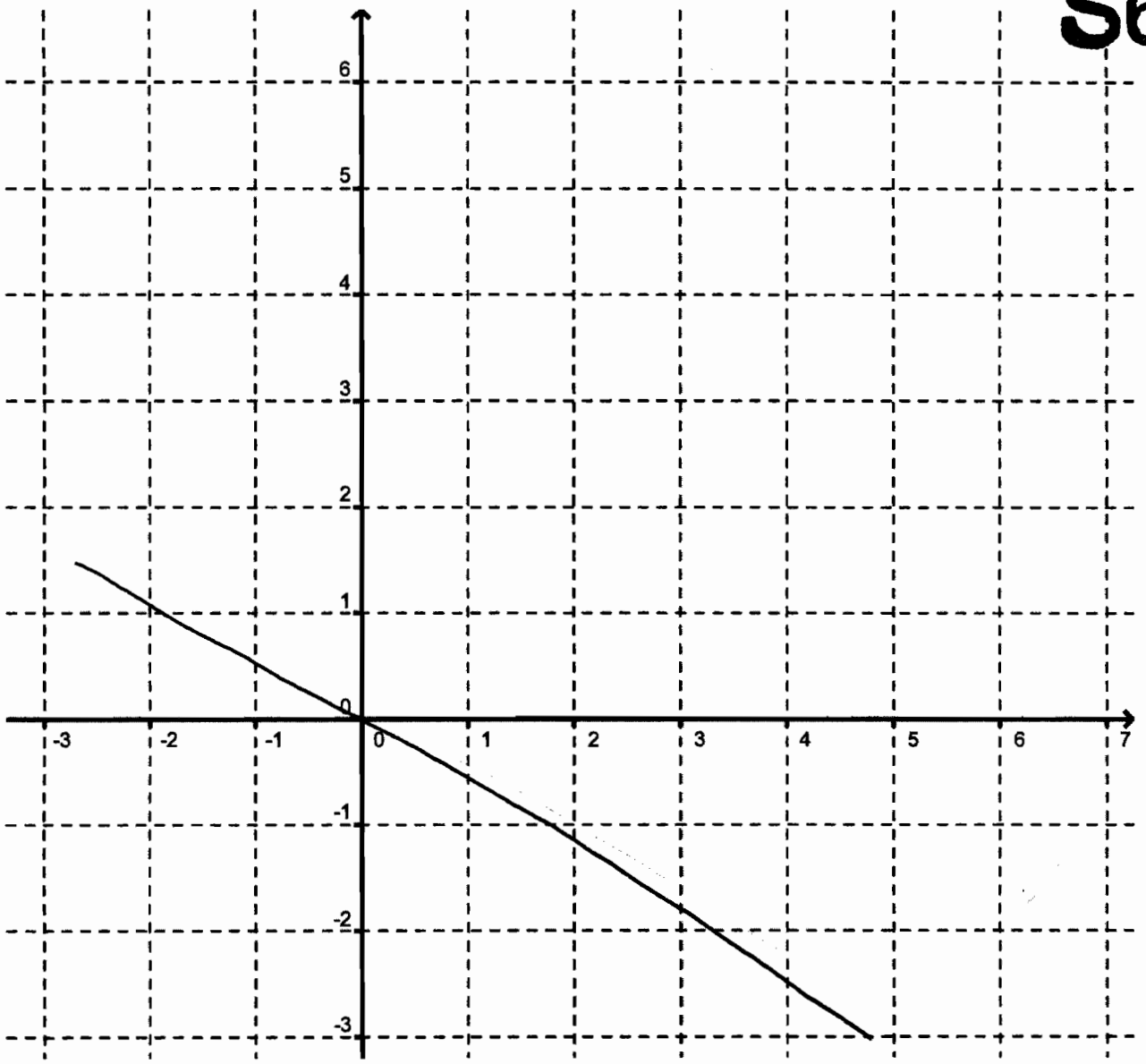
1. Four of the graphs are drawn below.

   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.







2. a. Which equation could represent the speed of someone walking steadily? $y=3$

Explain your reasoning.

they could be walking in a straight line

b. Which equation could represent the conversion between two different monetary currencies?

$y=\frac{1}{3}x$

Linear Graphs

S7

This problem gives you the chance to:

- Show knowledge and understanding of linear graphs

Here are the equations of some linear graphs.

$y = 3$

$y = 2x + 6$

$2y + x = 0$ $\quad y+x=0$

$y = \frac{1}{3}x$

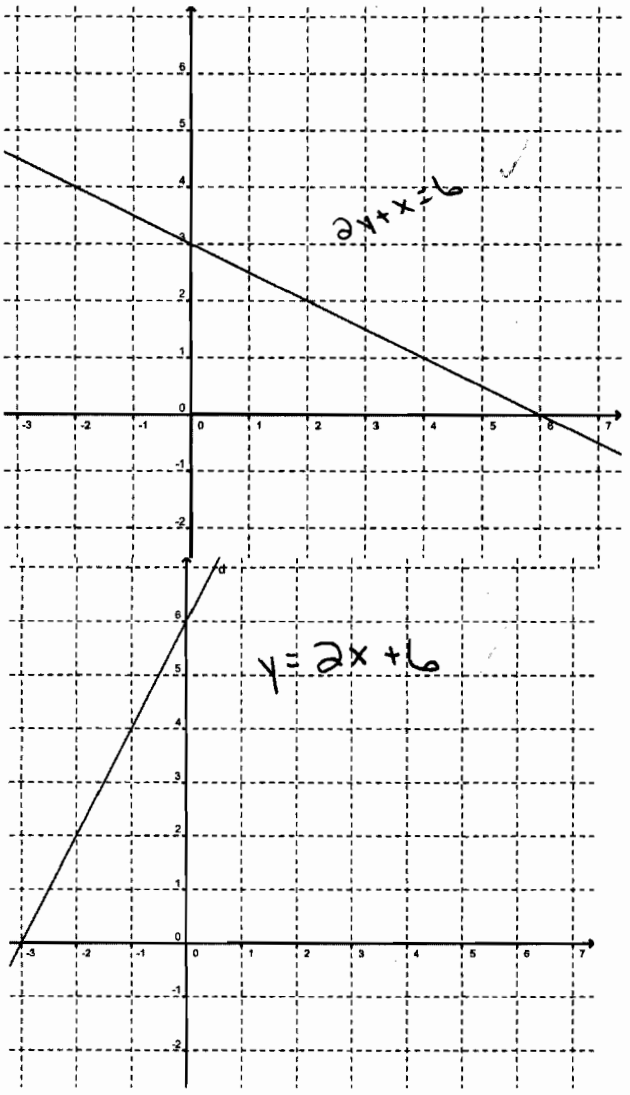
$2y + x = 6$

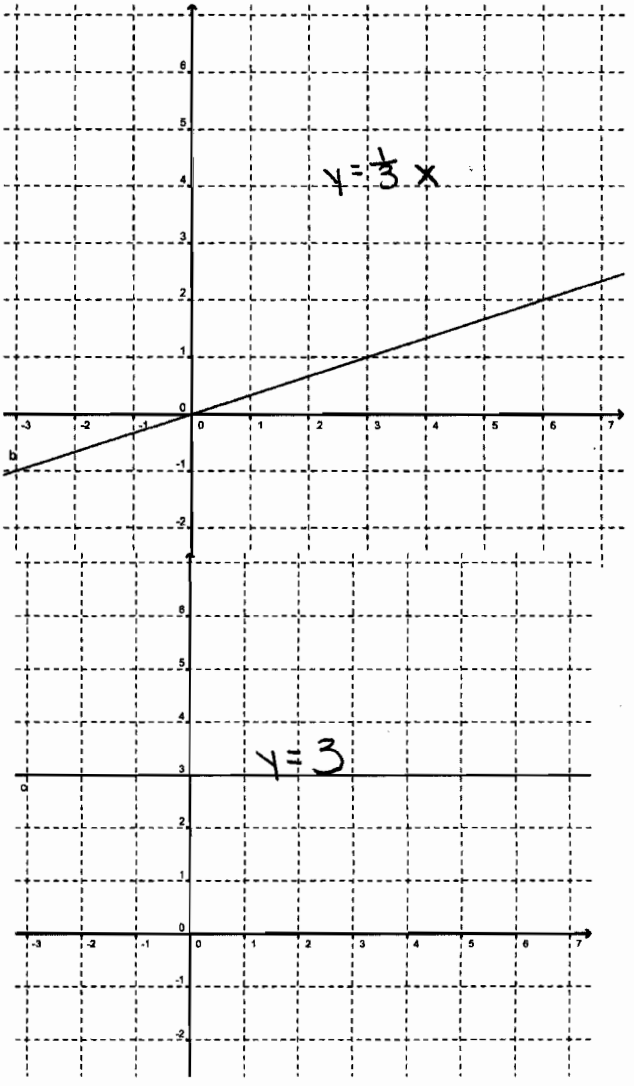
$y+x = 3-x$ $\quad -x$

1. Four of the graphs are drawn below.

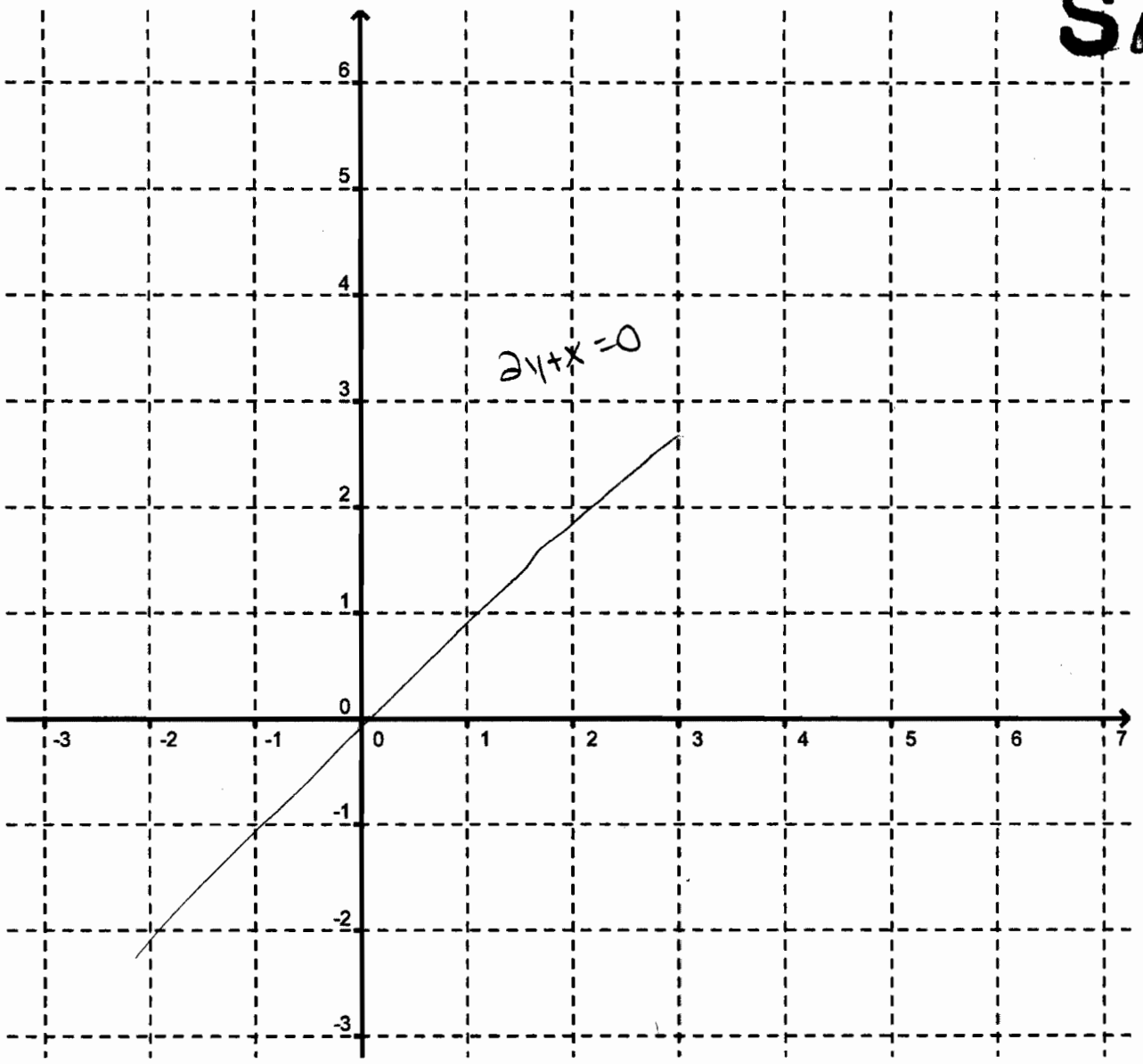
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.





S7



2. a. Which equation could represent the speed of someone walking steadily? $y = 3$
Explain your reasoning.

because, speed stays the same, but your still moving (distance)

b. Which equation could represent the conversion between two different monetary currencies?

$y = \frac{1}{3}x$

8

Linear Graphs

S8

This problem gives you the chance to:

- show knowledge and understanding of linear graphs

Here are the equations of some linear graphs.

$y = 3$

$y = 2x + 6$

$2y + x = 0$

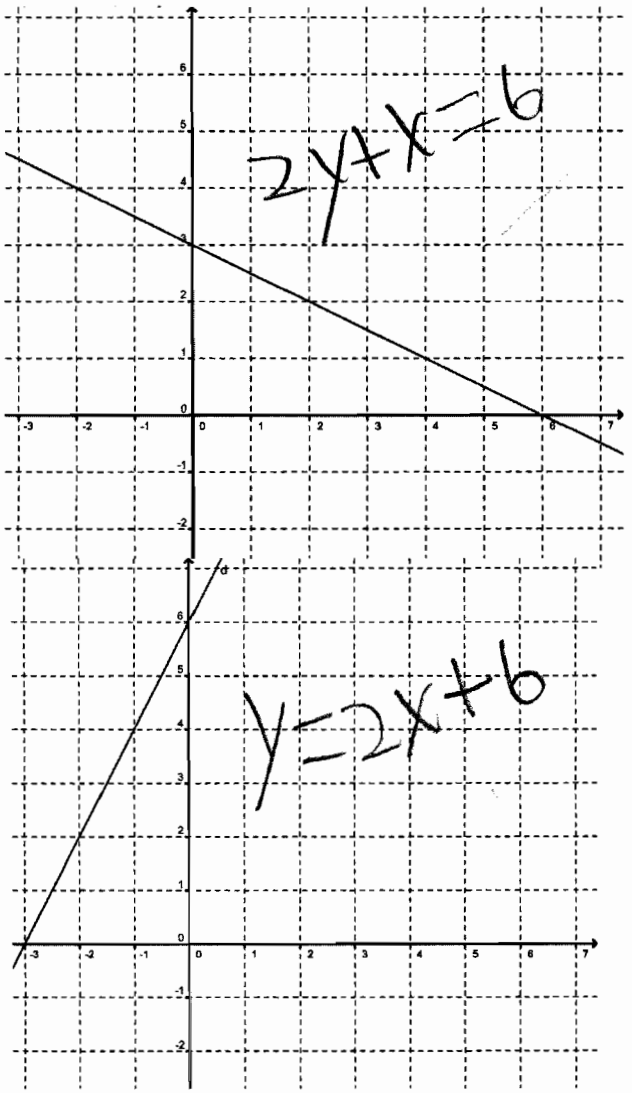
$y = \frac{1}{3}x$

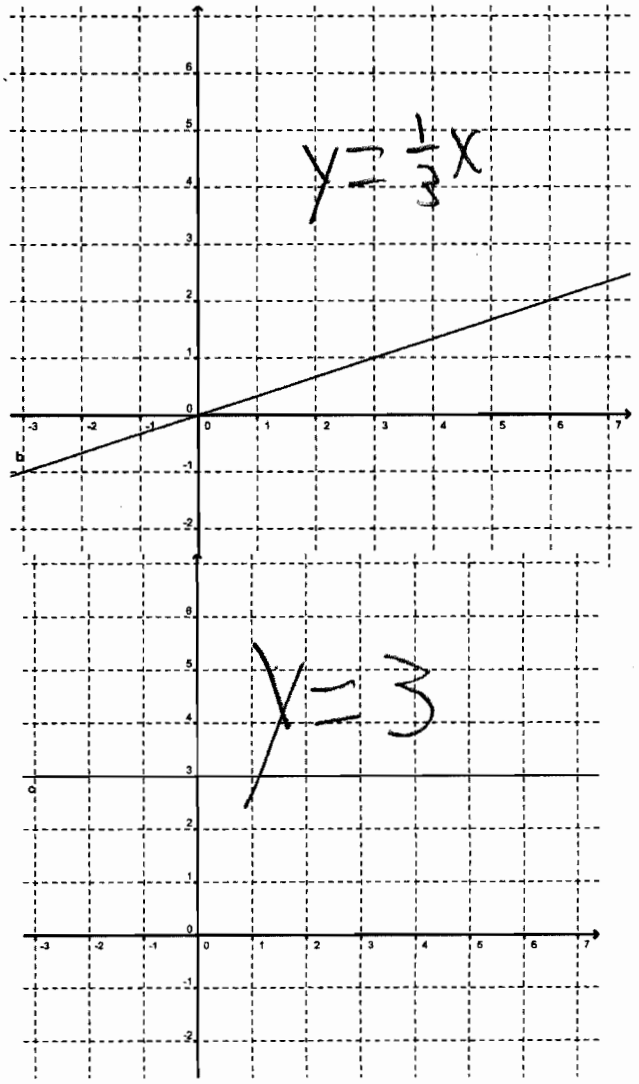
$2y + x = 6$

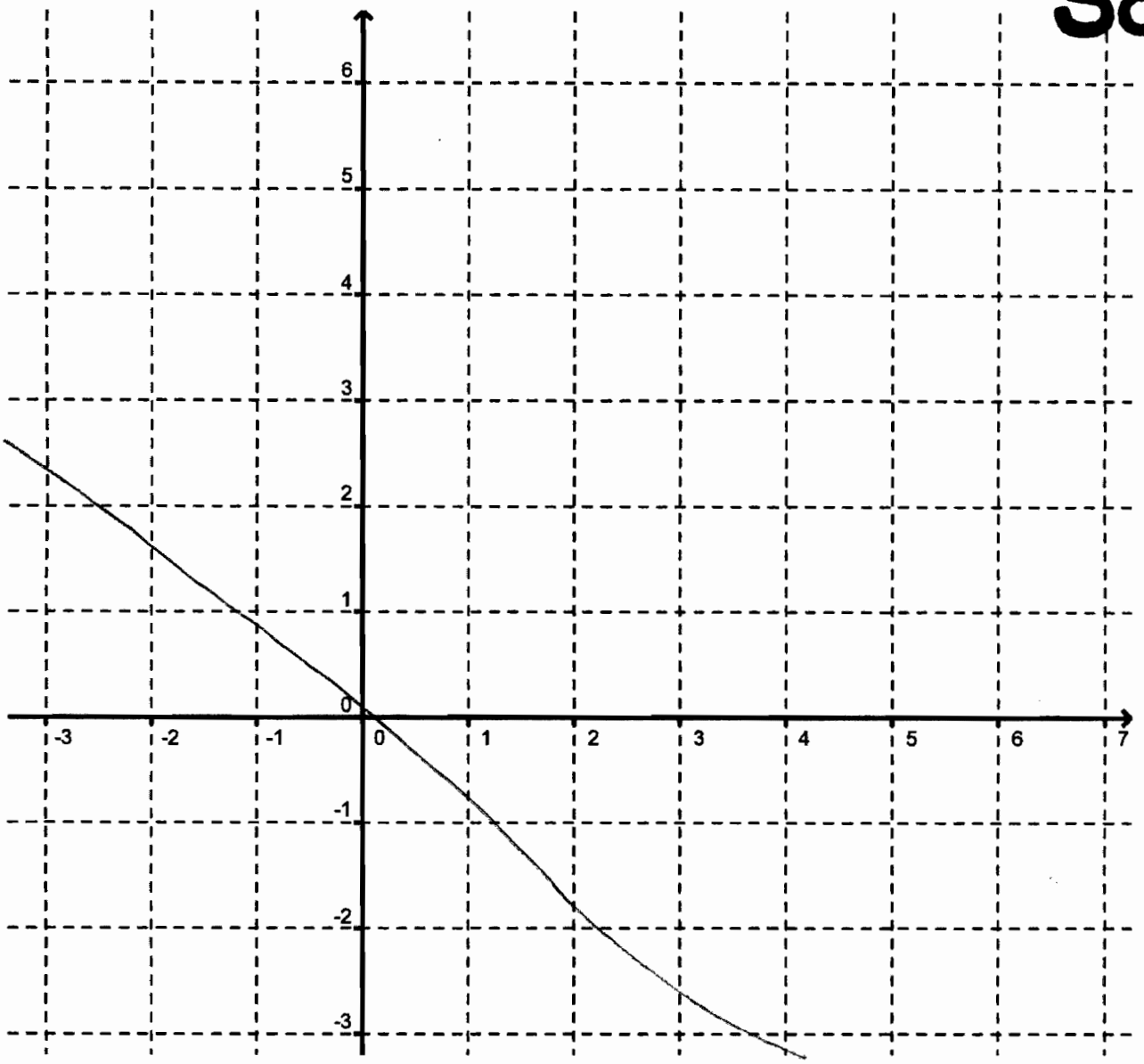
1. Four of the graphs are drawn below.

   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.







2. a. Which equation could represent the speed of someone walking steadily? $y = x$
Explain your reasoning.

because $y = x$ is a steady rate thats not to fast

b. Which equation could represent the conversion between two different monetary currencies?

x^2

Linear Graphs

S9

This problem gives you the chance to:

- show knowledge and understanding of linear graphs

Here are the equations of some linear graphs.

~~$y = 3$~~

~~$y = 2x + 6$~~

$2y + x = 0$

~~$y = \frac{1}{3}x$~~

$2y + x = 6$

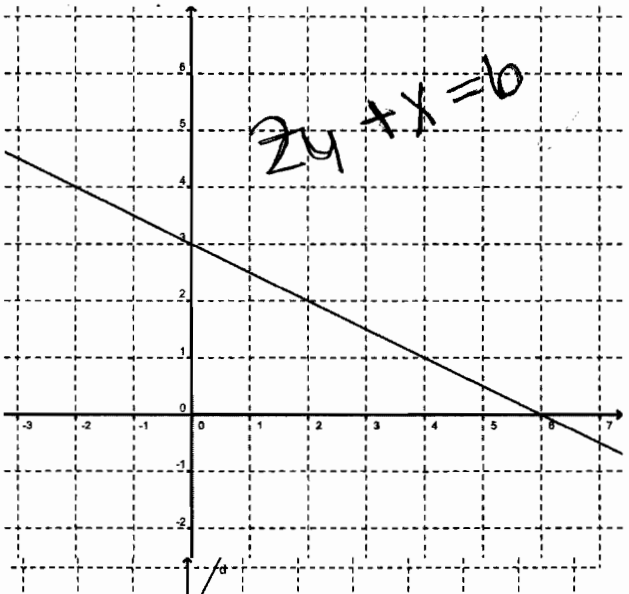
$2y + x = 0$
$-x = -x$
$\frac{2y}{2} = \frac{0-x}{2}$
$y = x/2$

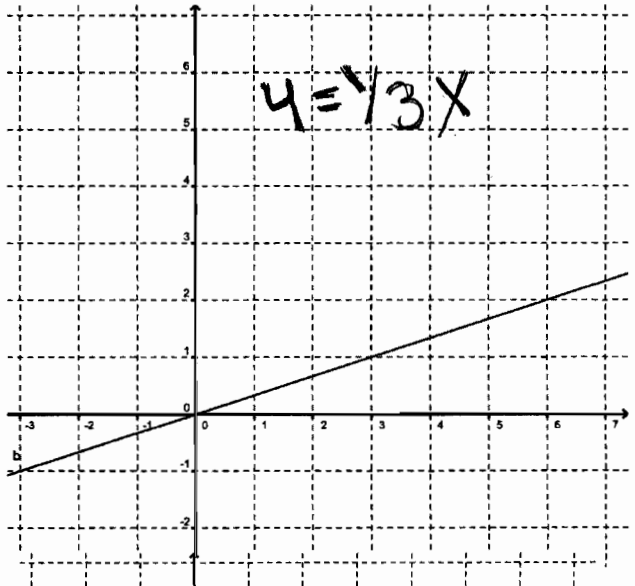
$2y + x = 6$
$-x \quad -x$
$\frac{2y}{2} = \frac{6}{2} - x$
$y = 3 - x/2$

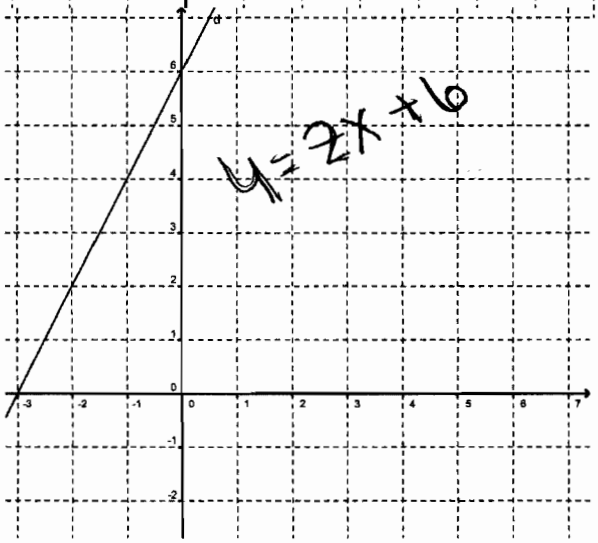
1. Four of the graphs are drawn below.

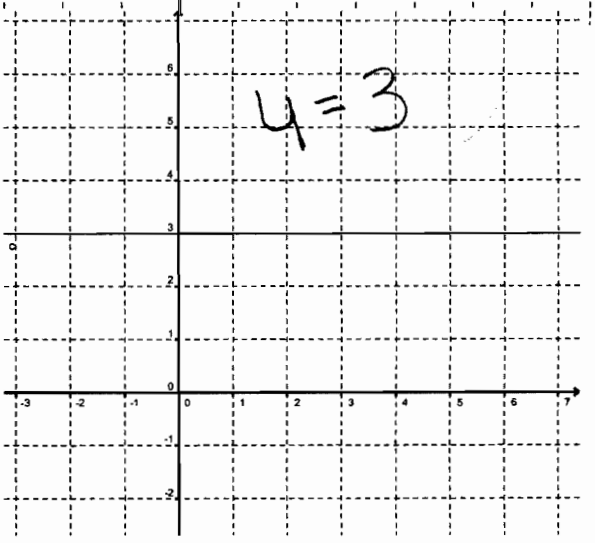
   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.

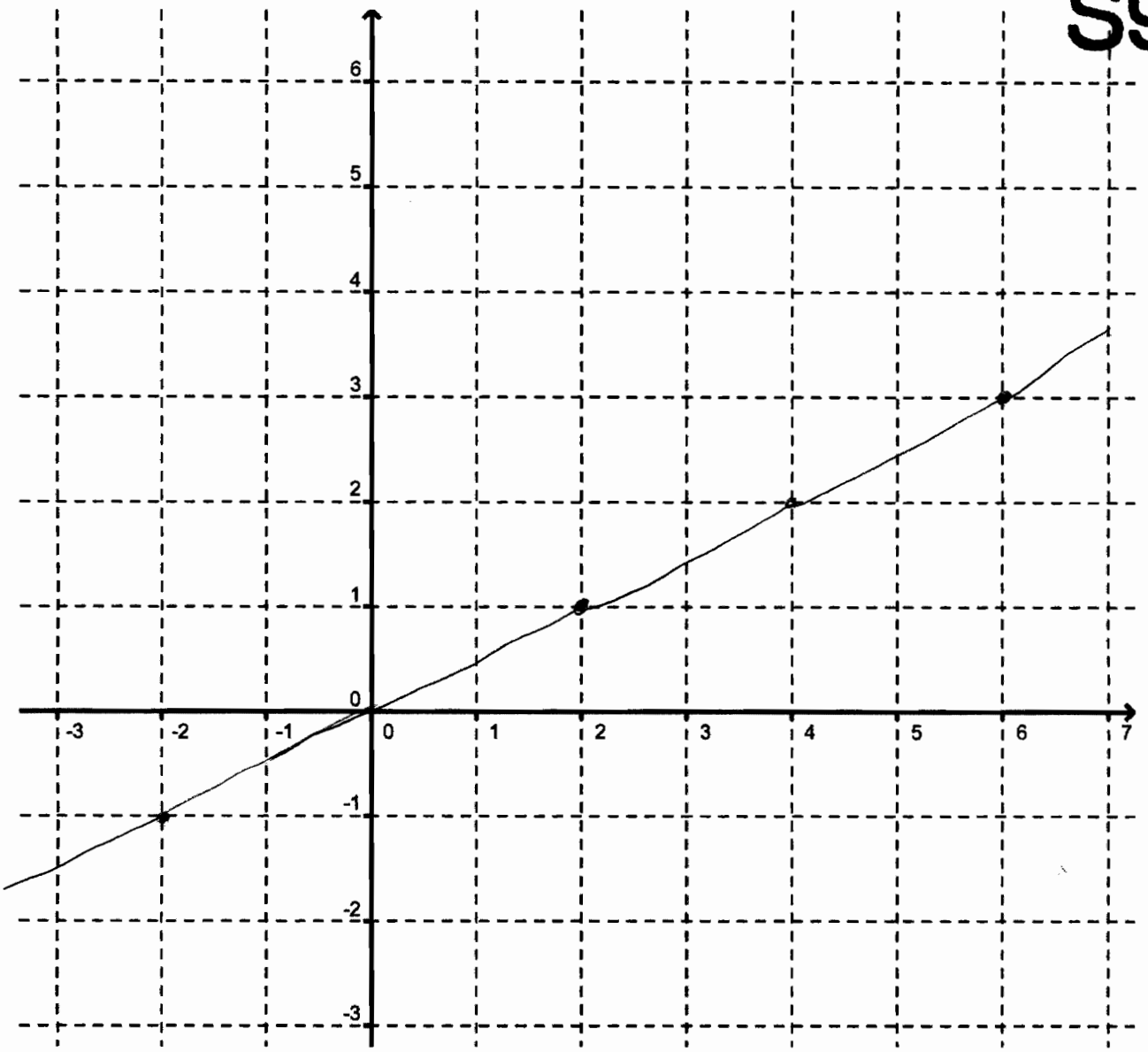








S9



2. a. Which equation could represent the speed of someone walking steadily? $y = 3$
Explain your reasoning.

Because they are walking at the same pace and not walking up a steep hill or mountain.

b. Which equation could represent the conversion between two different monetary currencies?

$y = Y3x$

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Linear Graphs

This problem gives you the chance to:
- show knowledge and understanding of linear graphs

S10

Here are the equations of some linear graphs.

$y = 3$

$y = 2x + 6$ slope 2

$2y + x = 0$ $y = -\frac{1}{2}x$ slope $-\frac{1}{2}$

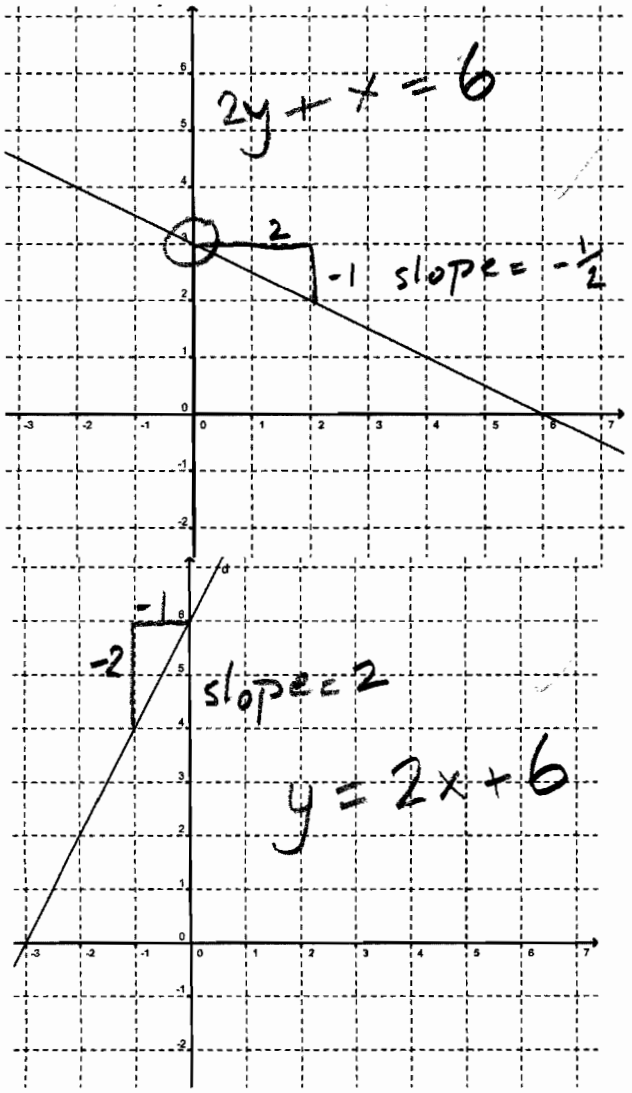
$y = \frac{1}{3}x$

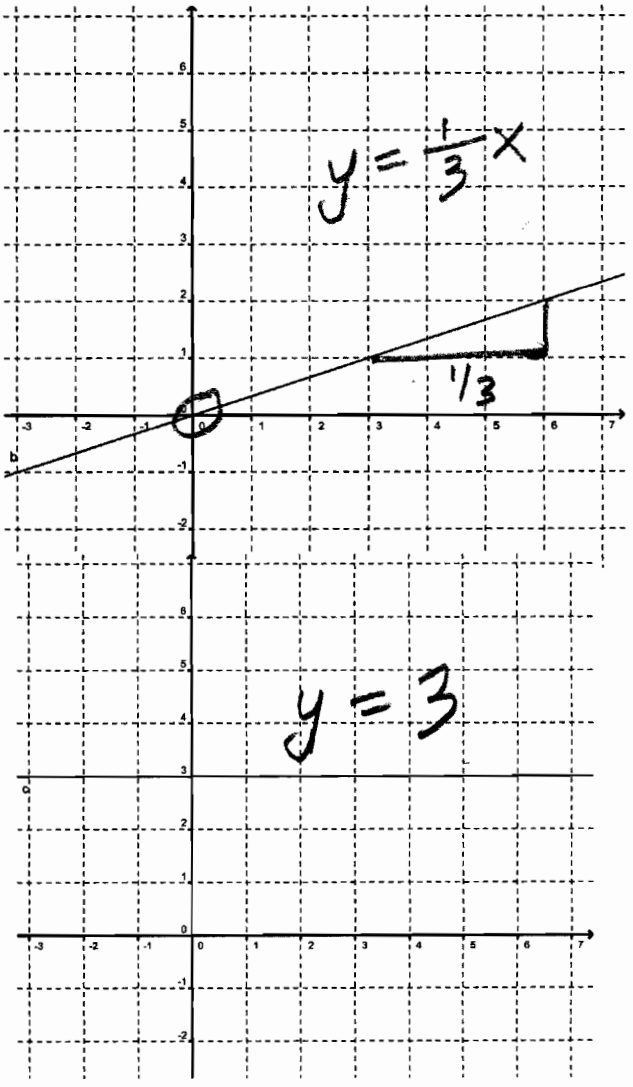
$2y + x = 6$ $y = -\frac{1}{2}x + 3$ slope $-\frac{1}{2}$

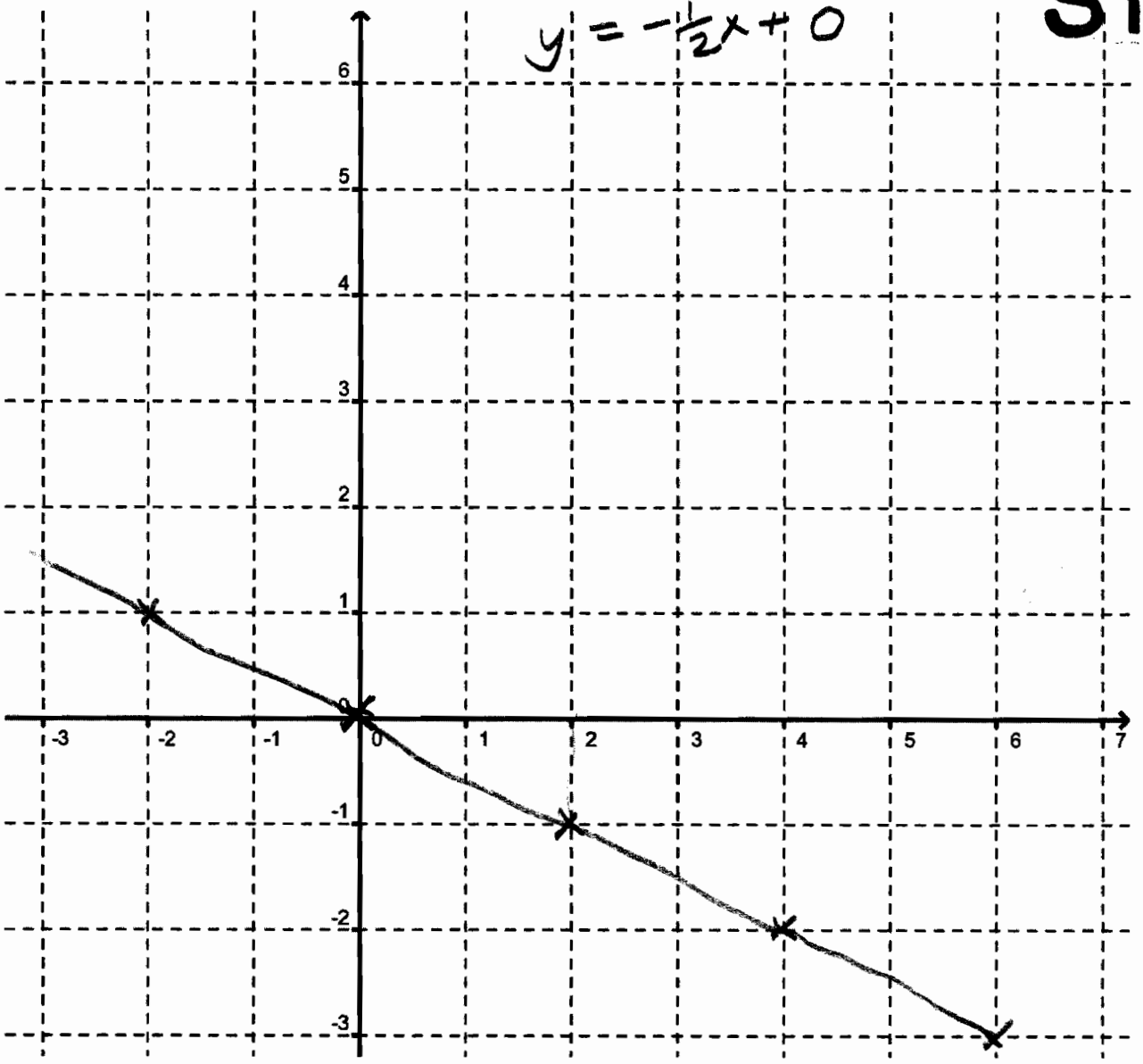
1. Four of the graphs are drawn below.

   a. Write the correct equation on each graph.

   b. Draw the graph of the equation not used above on the diagram on the opposite page.







2. a. Which equation could represent the speed of someone walking steadily? Explain your reasoning.

y = 3

The x can be time or distance and the y is speed which is steady at 3 mph.

b. Which equation could represent the conversion between two different monetary currencies?

$y = \frac{1}{3}x$