

Level 3:

Goals:

I have mastered level 3 when I can:

Write an equation from a graph

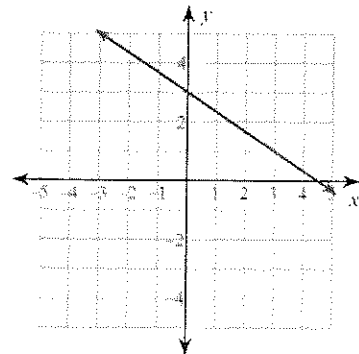
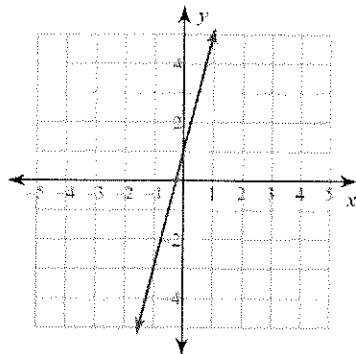
Write an equation given two points, one of which is the y-intercept.

Notes:

Big Ideas

Definition of

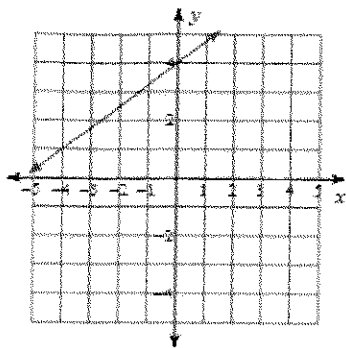
Examples/Details



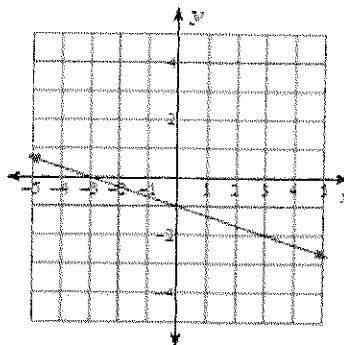
Basic Practice:

Write the slope-intercept form of the equation of each line.

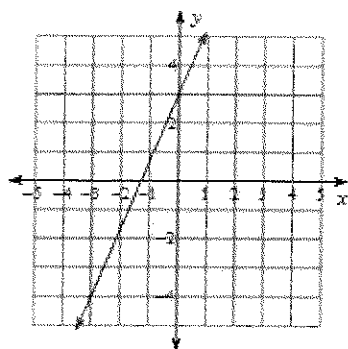
1)



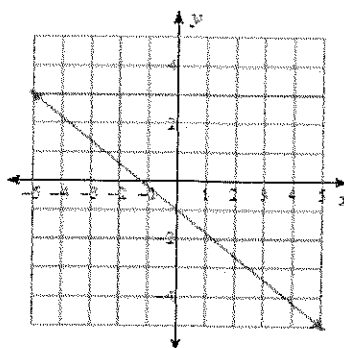
2)



3)



4)



Write the slope-intercept form of the equation of the line through the given points.

5) through: $(-2, -3)$ and $(0, 1)$

6) through: $(0, 2)$ and $(-4, -3)$

7) through: $(0, 1)$ and $(5, 3)$

8) through: $(0, -3)$ and $(-1, -3)$

Worksheet Level 3: Writing Linear Equations

Goals:

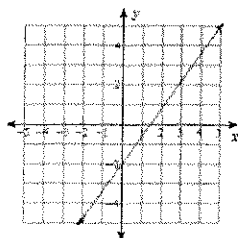
I have mastered level 3 when I can:

Write an equation from a graph

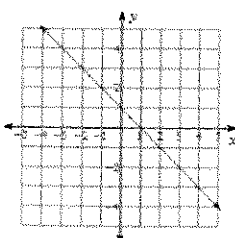
Write an equation given two points, one of which is the y-intercept.

Write the slope-intercept form of the equation of each line.

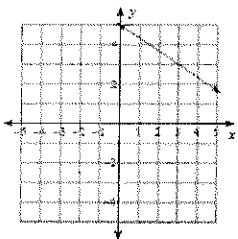
1)



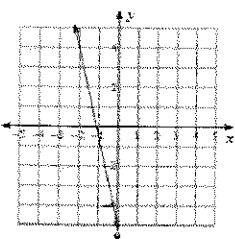
2)



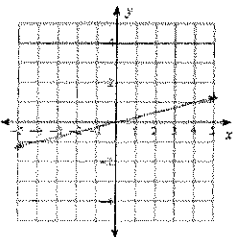
3)



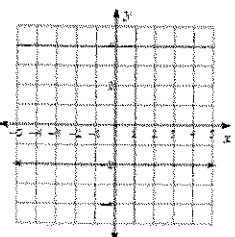
4)



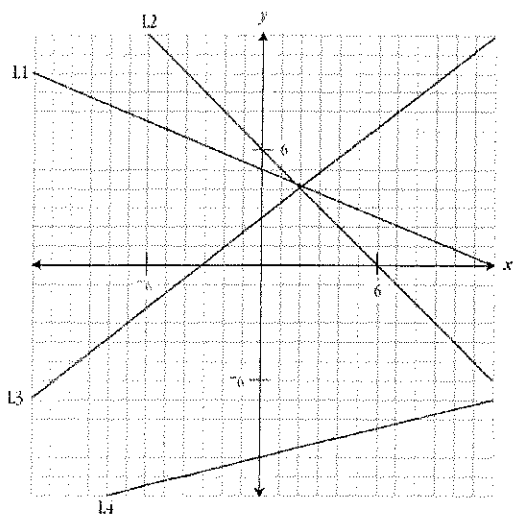
5)



6)



Write an equation for each of the four lines shown on the graph below.



Write the slope-intercept form of the equation of the line through the given points.

1) through: $(0, 0)$ and $(-2, -2)$

2) through: $(2, -2)$ and $(0, 3)$

3) through: $(0, 5)$ and $(1, 4)$

4) through: $(2, -2)$ and $(0, -5)$

5) through: $(-1, -2)$ and $(0, 0)$

6) through: $(0, 3)$ and $(1, 5)$

Use the information below to find the equation to convert Celsius to Fahrenheit.

Two important reference points for temperature are:

- Water freezes at 0°C , or 32°F .
- Water boils at 100°C , or 212°F .

X = Celsius
Y = Fahrenheit

This is how the Celsius scale was invented, using these two points.

We will use this information to create 2 points: **$(0, 32)$ and $(100, 212)$**

Write an equation using these two points.

SHOW ALL WORK.

Use the equation to convert the following Celsius temperatures to Fahrenheit.

a. 50°

b. 150°

c. -50°

d. -40°

REVIEW Level 3: Writing Linear Equations

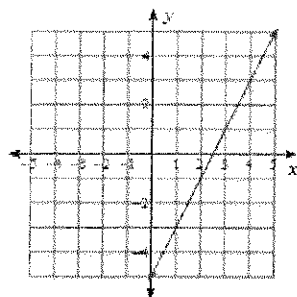
Write the slope-intercept form of the equation of each line given the slope and y-intercept.

1) Slope = $\frac{1}{4}$, y-intercept = -3

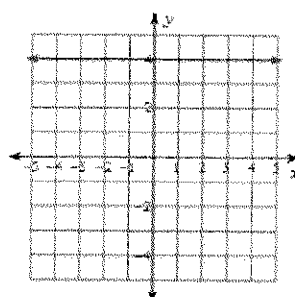
2) Slope = 7 , y-intercept = 2

Write the slope-intercept form of the equation of each line.

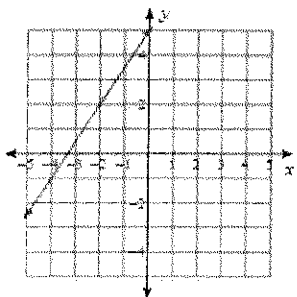
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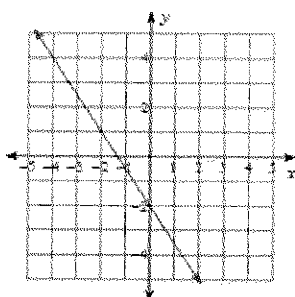
4)



5)



6)



Write the slope-intercept form of the equation of the line through the given points.

7) through: $(1, -5)$ and $(0, 0)$

8) through: $(-4, -3)$ and $(0, -1)$

9) through: $(0, -5)$ and $(2, -4)$

10) through: $(0, 4)$ and $(5, 2)$