

Name: _____ Date: _____ Period: _____

Study guide for Quiz on 5.1-5.4

1. Write the equation of the line passing through (4, -2) and (-4, 0).

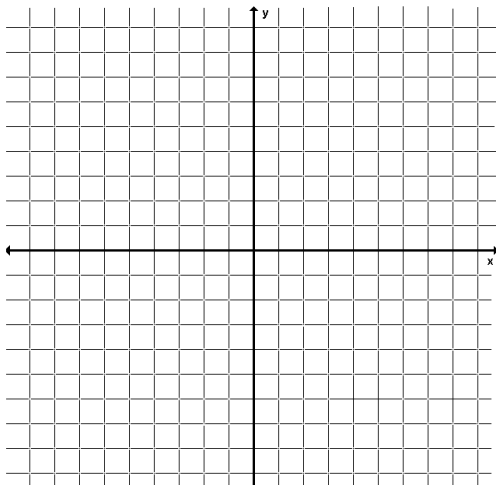
Slope:

Slope-Intercept Form:

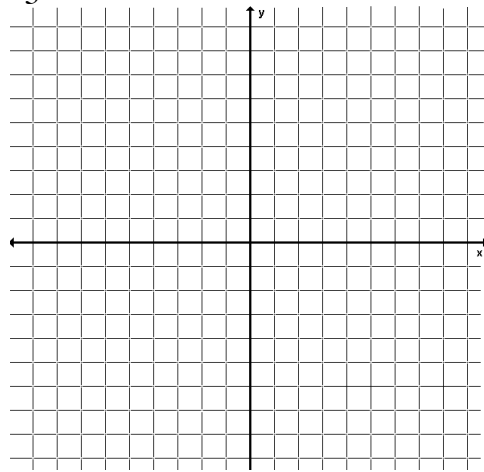
Point-Slope Form:

Graph these equations.

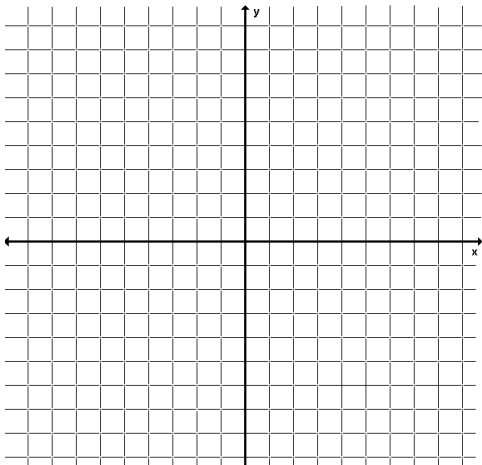
2. $y - 4 = 3(x + 2)$



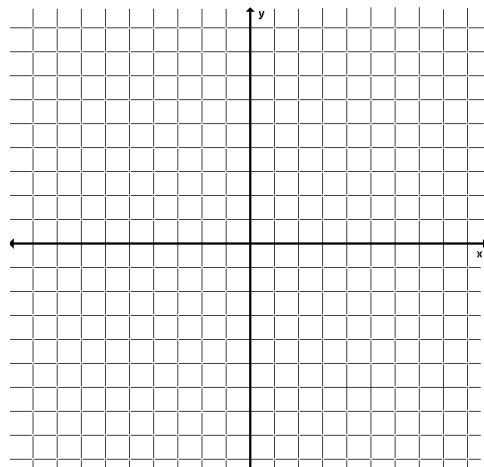
3. $y = -\frac{1}{3}x + 2$



4. $y + 2 = 4(x - 1)$



5. $x = 5$



6. Create an equation in point-slope form that travels through (-5, 9) and has a slope of 1/3?

7. $y - 4 = -\frac{1}{3}(x + 6)$ Find the slope and y-intercept WITHOUT graphing!

Change this equation into an equation in slope intercept form.

8. $3x - 7y + 2 = 3$

9. Based on the following table...

X	Y
-3	1
9	-3
-6	2

What is the rate of change for the pattern?

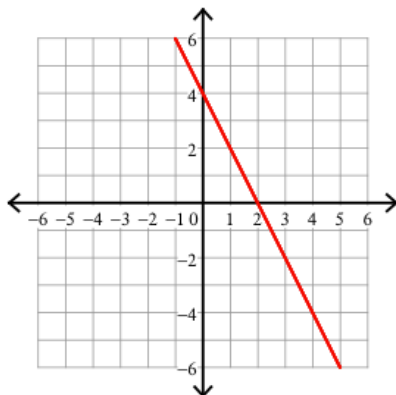
Write an equation in point-slope form.

Write an equation in slope intercept form.

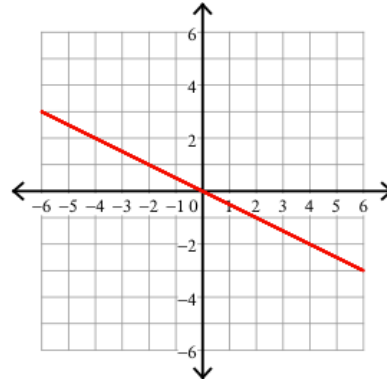
If $x = 100$, what should y equal?

Write an equation in slope intercept form for each of the following two graphs.

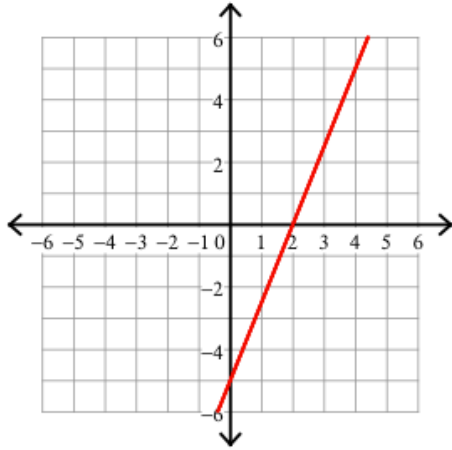
10.



11.



12. Write the equation of this line in point slope form AND in slope-intercept form!



13. Using point-slope form, write an equation that models the following scenario.

“In 2000 SVHS had 250 working desktop computers. In 2008 there were only 98 working desktop computers in the high school.”

Write an equation in point-slope form.

Now write an equation in slope intercept form.

If the downfall of the desktop computer was linear, when did they disappear from the HS all together? Use one of your equations to determine your answer.

Finally, do you believe that the downfall of the desktop computer was linear? Explain.