

Unit 2 Linear Functions

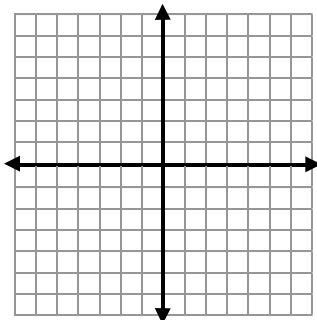
Name: _____

Day 3 Worksheet Slope Intercept Form (PH 6-2)

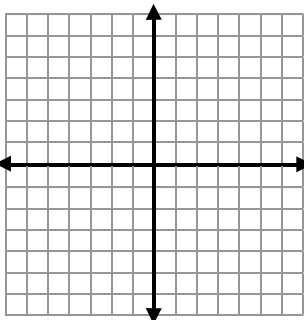
Date: _____ Hour: _____

Plot the line with the given equation in slope-intercept form.

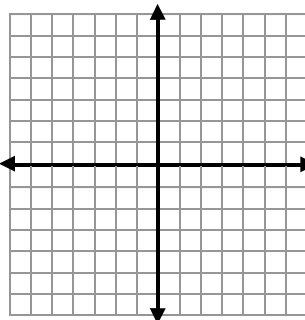
1. $y = \frac{1}{3}x - 2$



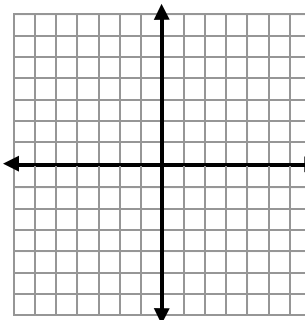
2. $y = -\frac{1}{2}x + 5$



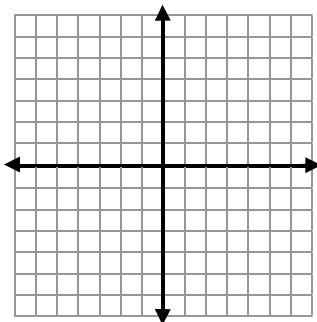
3. $y = 3x - 6$



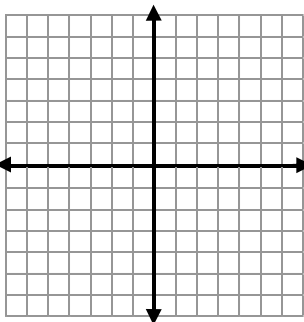
4. $y = -2x$



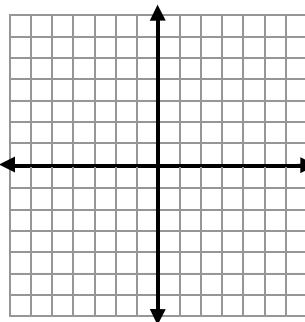
5. $y = \frac{4}{5}x$



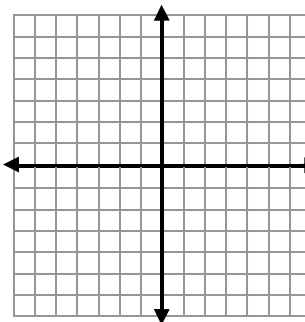
6. $y = -2x - 1$



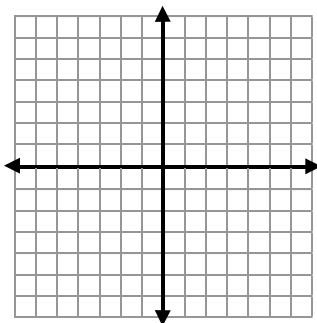
7. $y = -2$



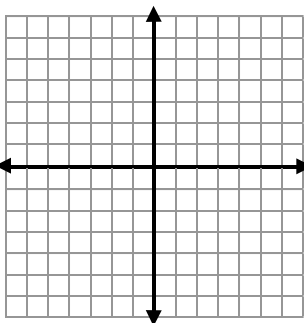
8. $y = \frac{1}{2}x + 5$



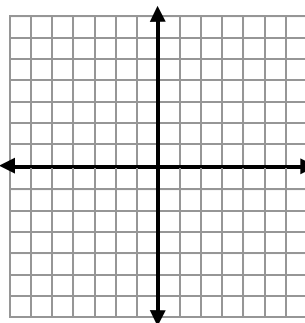
9. $y = x - 3$



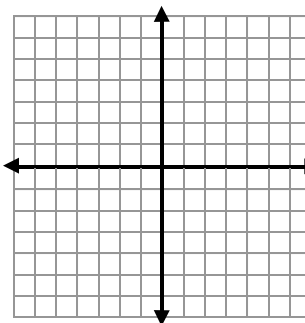
10. $y = -x + 6$



11. $y = -4x$

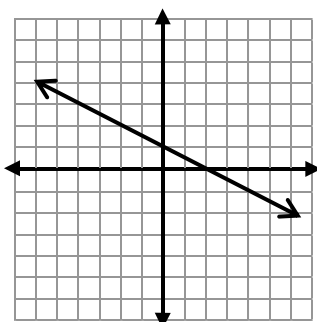


12. $x = 4$

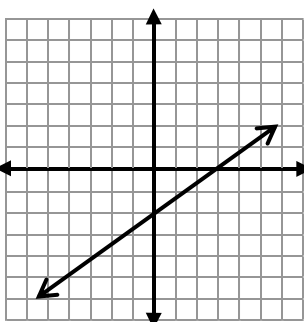


Determine the slope and y-intercept. Then, write an equation for the given line.

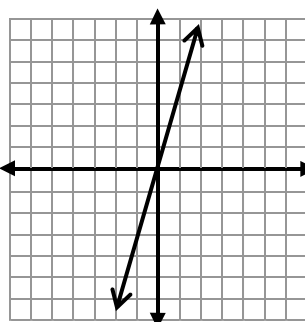
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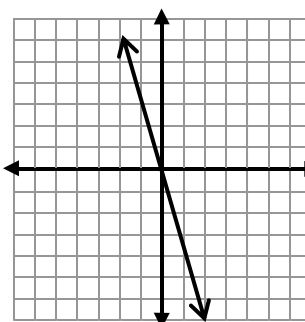
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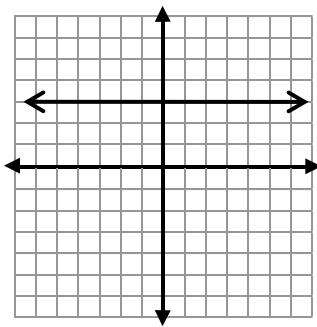
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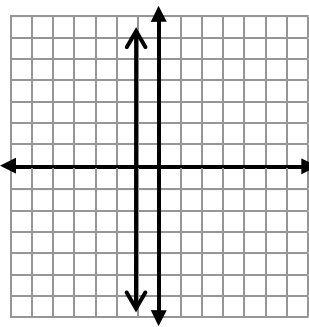
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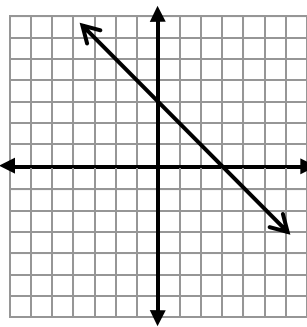
17.



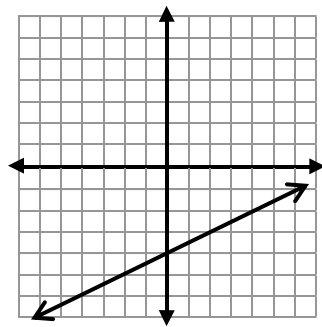
18.



19.



20.



$$m = \text{Slope} = \frac{\text{rise} \updownarrow}{\text{run} \rightarrow} = \frac{y_2 - y_1}{x_2 - x_1}$$

Slope – Intercept Form: $y = mx + b$

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

21. $(0, 0), (-2, 4)$

22. $(1, -3), (3, -5)$

23. $(3, -2), (4, 5)$

24.

Retail Sales A music store is offering a coupon promotion on its CDs. The regular price for CDs is \$14. With the coupon, customers are given \$4 off the total purchase. The equation $t = 14c - 4$, where c is the number of CDs and t is the total cost of the purchase, models this situation.

- Graph the equation.
- Find the total cost for a sale of 6 CDs.

