Name _____ Class _____ Date _____

Practice

Standard Form

Find the *x*- and *y*-intercepts of the graph of each equation.

1. $x + y = -5$

2. $2x - 8y = -8$

3. $x + 2y = -10$

4. $-3x + 6y = 12$

Draw a line with the given intercepts. USE GRAPH PAPER.

5. *x*–intercept: 2
Y–intercept: –5

6. *x*-intercept: –1
y-intercept: –2

Graph each equation using *x*- and *y*-intercepts. USE GRAPH PAPER.

7. $4x + y = -2$

8. $6x + 8y = -24$

9. $x - 2y = 4$

For each equation, tell whether its graph is a *horizontal* or a *vertical* line.

10. $x = -5$

11. $y = 4$

Graph each equation. USE GRAPH PAPER.

12. $x = -2$

13. $y = 7$

Name _____ Class _____ Date _____

5-5 Practice (continued) *Form K*

14. Writing

Explain how $y - 2 = 3(x + 4)$ can be rewritten into standard form. Then show your work in transforming the equation to standard form.

Write each equation in standard form using integers.

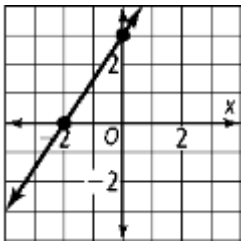
15. $y = 2x + 4$

16. $y + 3 = -(x + 1)$

17. Ariana works two jobs. At the first job, she earns $10 per hour. At the second job, she earns $12 per hour. She earned $240 last week. Write and graph an equation that represents this situation. What are three combinations of hours Ariana could have worked at each job?

For each graph, find the *x*- and *y*-intercepts. Then write an equation in standard form using integers.

18.



Find the *x*- and *y*-intercepts of the line that passes through the given points.

19. $(1, -2), (5, -4)$

20. $(-2, -3), (3, 2)$