Lesson 3.2 – 3.3 Homework
Algebra 2

Graph these lines on graph paper. Use your knowledge of the equations of lines. Do not make a table of points.

1. $y = 2/3x + 1$
2. $y = -1/4x + 6$
3. $y = x - 3$
4. $y = -2x + 5$
5. $y = 4$
6. $y = -3$
7. $x = 4$
8. $x = -2$

Calculate the x and y-intercepts of each line. X-intercept (__, 0)
Y-intercept (0, __)

9. $y = 3x - 12$
10. $2x - 4y = 12$
11. $x + 3y = 5$

Write the equation of each line in point-slope form: $y - y_1 = m(x - x_1)$

12. Point (8, 3); slope = 4/5
13. Point (-11, 15); slope = -4
14. Point (-6, -9); slope = 1.24

Transform the point-slope equation to slope-intercept form (this is answer a).
Then transform your answer from part a into standard form (this is answer b).

15. $y - 3 = -2(x + 5)$
16. $y + 4 = 3/2(x - 6)$
17. $y - 1 = -1/4(x + 5)$

Standard form: $Ax + By = C$ (A, B, and C have to be integers)