Algebra 2 Test Unit 1 Practice Test Name_____

Solve the following equations

1. $8(a - 2) + 1 = -8$

2. $\frac{6}{5}(9m - 10) = 3 + 5m$

3. $6(p + 2) - 6 = 5(3p - 4) - 10$

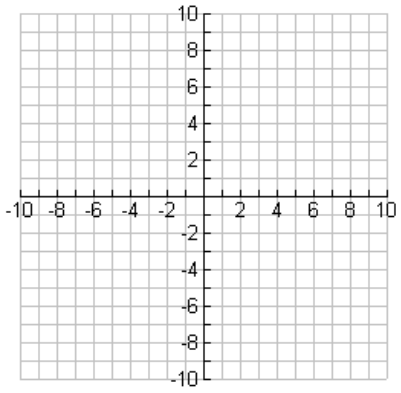
4. $10[6 - 3(2y - 5)] = 7(12 + 8y)$

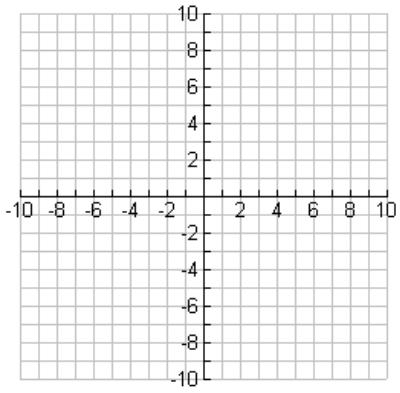
Graph the equation

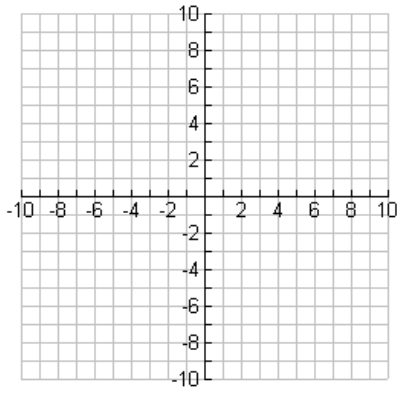
5. $y = \frac{1}{4}x - 5$

6. x = -1

7. y = 5







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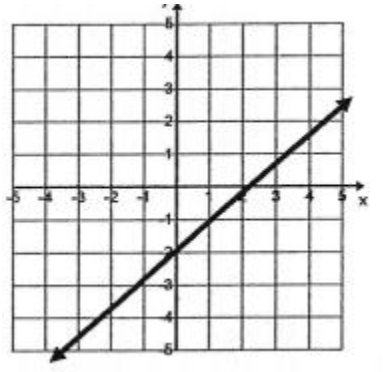
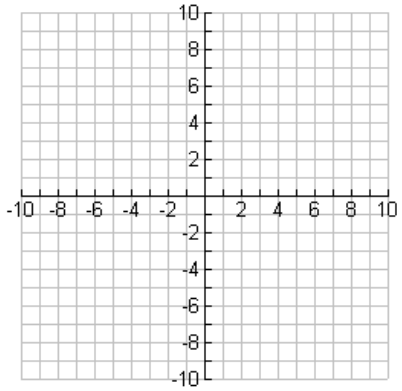
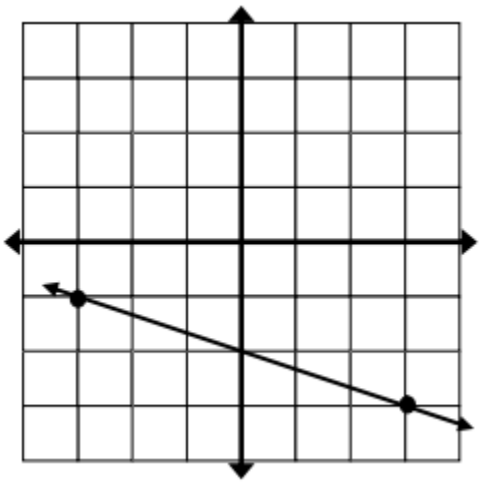


9. Graph 5x – 3y = 15 using intercepts



10. Find the **slope-intercept** equation of a line with slope 6 and y-intercept (0, 2)

11. Find the **slope-intercept** form of the equation in the graph below



12. Find the **Point-Slope equation** of a line with slope $m = \frac{-5}{7}$ and containing the point (-8, 2)

13. Using the points (-5, -2) and (-1, 5), find the equation of the line in:

a) Point-Slope Form b) Slope-Intercept Form c) Standard Form

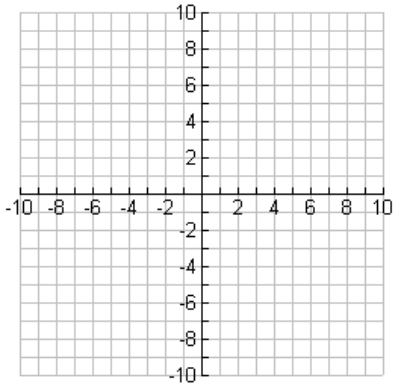
14. Find an equation of a line **parallel** to y = 5x + 1 that contains the point (-6, 1).

Write the equation in **Point Slope** form.

15. Find an equation of a line **perpendicular** to y = -5x + 1 that contains the point (-6, 1).

Write the equation in **Point Slope** form.

Solve the system using the graphing method



16. -x + y = 2 -3x + y = -2

Solve the system using the substitution method

17. $-2x + y = -10$ $-4x + y = -8$

18. Solve the system using the elimination method

$8x + 3y = 13$

$3x + 2y = 11$