EXCEPT YOUR GRAPHS, DO ALL YOUR WORK ON A SEPARATE PIECE OF PAPER.
BE SURE TO NUMBER ALL QUESTIONS AND SHOW ALL YOUR WORK.

1. Write in **point-slope form** the equation of the line that passes through the point $(2, -6)$ with slope $-\frac{4}{5}$.

2. Write in **point-slope form** an equation for the line shown to the right.

3. Rewrite the equation $y + 4 = -\frac{2}{5}(x - 7)$ in **slope intercept form**.

4. Rewrite the equation $4x + 3y = -39$ in **slope-intercept form**. What is the slope of the line?

5. Write in **point-slope form** the equation of the line passing through the points $(-2,5)$ and $(10, -7)$.

6. For her Algebra final exam, Patty Patriot will have to take a test worth 100 points. The test only has two types of questions: multiple choice questions, each of them worth 2 points, and free response questions, each of them worth 4 points. Patty's teacher announced that he has not decided yet how many questions of each type the final exam will have. Write an equation relating the number of multiple choice questions and the number of free response questions the final exam could have. **Make sure to define your variables.**

7. Rewrite the equation $y = \frac{3}{7}x + 4$ in **standard form**.
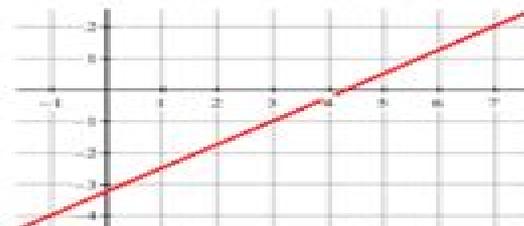
In 8-11, solve each equation. Be sure to clearly **show all steps** to receive full credit. You may leave your answers as simplified fractions: no decimals.

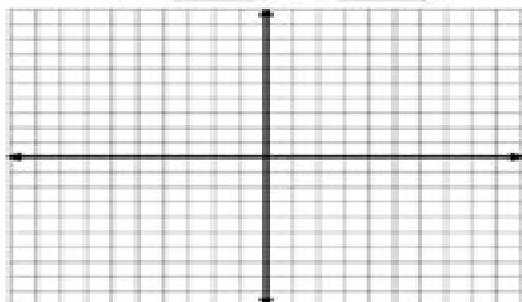|			
8.	$7x - 15 - 3x + 4 = 2x + 5$	9.	$-10x - 5 = 5(6 - 2x) + 1$
10.	$\dfrac{10 - 5x}{2} = 15$	11.	$\dfrac{2 - 7x}{3x + 1} = -\dfrac{5}{2}$

Identify the **slope** and **y-intercept** of each line and use that information to graph the line.

12. $\quad y = \frac{5}{8}x - 3$	13. $\quad y = 4x + 1$	14. $\quad y = -\frac{5}{3}x - 2$
$m =$ _____ ; $b =$ _____.	$m =$ _____ ; $b =$ _____.	$m =$ _____ ; $b =$ _____.

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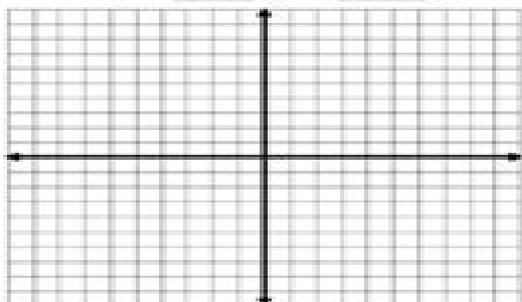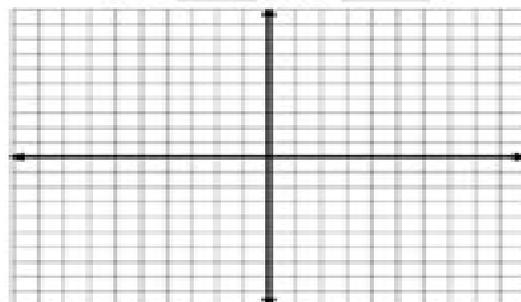
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