Test on Linear Forms Name_____

Write the equation in both standard and slope intercept form.

1. $(4, -3)$
   $(8, -4)$

   Standard_____

   Slope Int_____

2. $(5, 3)$
   $(10, 7)$

   Standard_____

   Slope Int_____

3. $(-2, 6)$
   $m = -\frac{2}{3}$

   Standard_____

   Slope Int_____

Write each equation in standard form

4. $y = \frac{3}{5}x - 2$ Standard_____

5. $y = \frac{-1}{6}x + \frac{5}{6}$ Standard_____

6. $y = \frac{-3}{7}x - 2$ Standard_____

Write each equation in slope intercept form

7. $2x - 5y = 15$ Slope Int_____

8. $3x + 2y = 8$ Slope Int_____

9. $x - 3y = 11$ Slope Int_____

Write the slope, y intercept as an ordered pair, and x intercept as an **ordered pair**

10. $2x - 5y = 25$ m = _____ y - int = _____ x - int = _____

11. $4x - 3y = 15$ m = _____ y - int = _____ x - int = _____

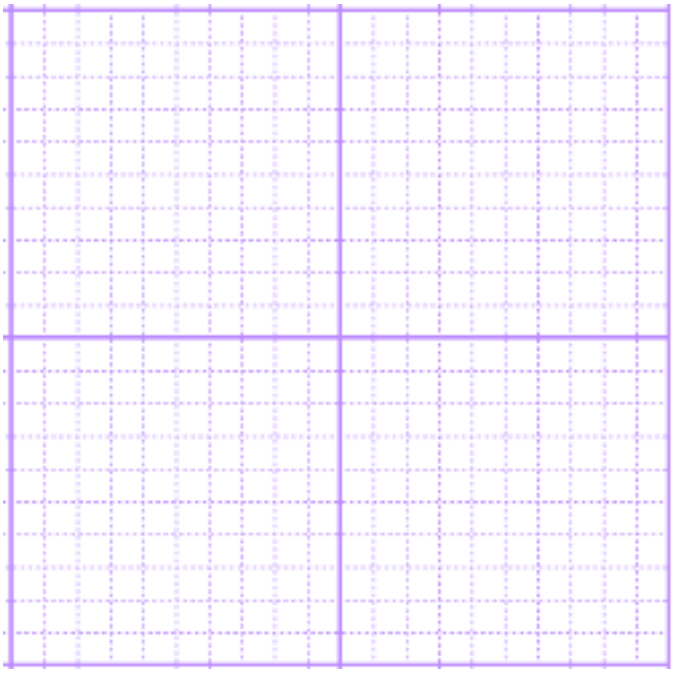
12. $y = \frac{-2}{5}x + 3$ m = _____ y - int = _____ x - int = _____

13. $y = \frac{4}{3}x - \frac{1}{3}$ m = _____ y - int = _____ x - int = _____

Graph Each of the following. Write intercepts as ordered pairs and write out description of line.

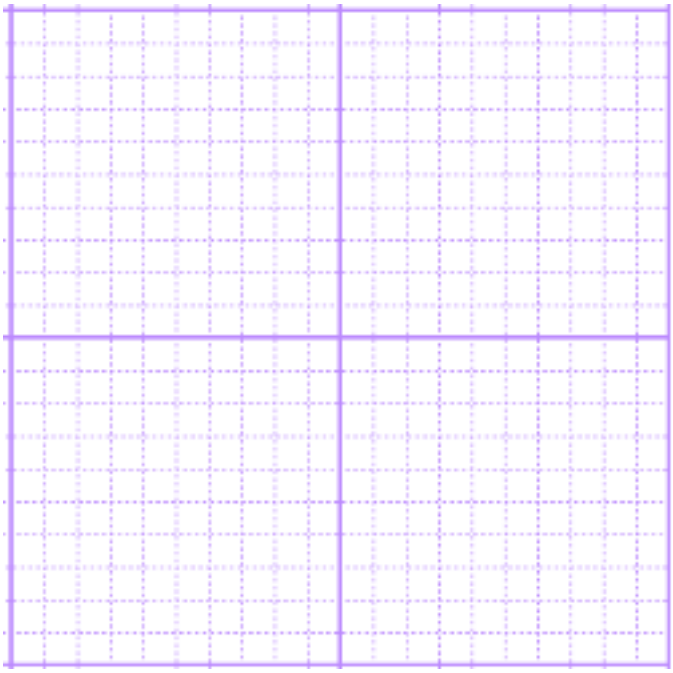
14. $y = \frac{1}{4}x - 2$ m = _____ incline / decline _____ y - int = _____

steep / shallow _____



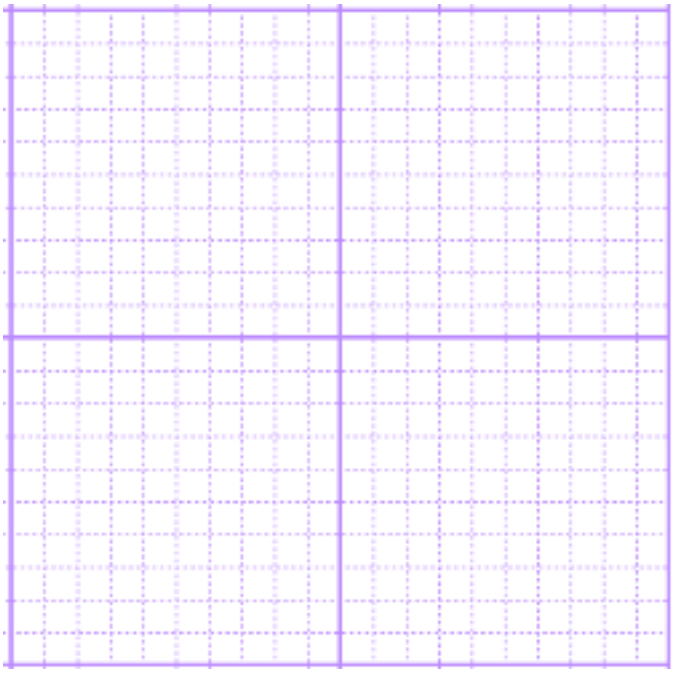
15. $y = \frac{5}{3}x + 2$ m = _____ incline / decline _____ y - int = _____

steep / shallow _____

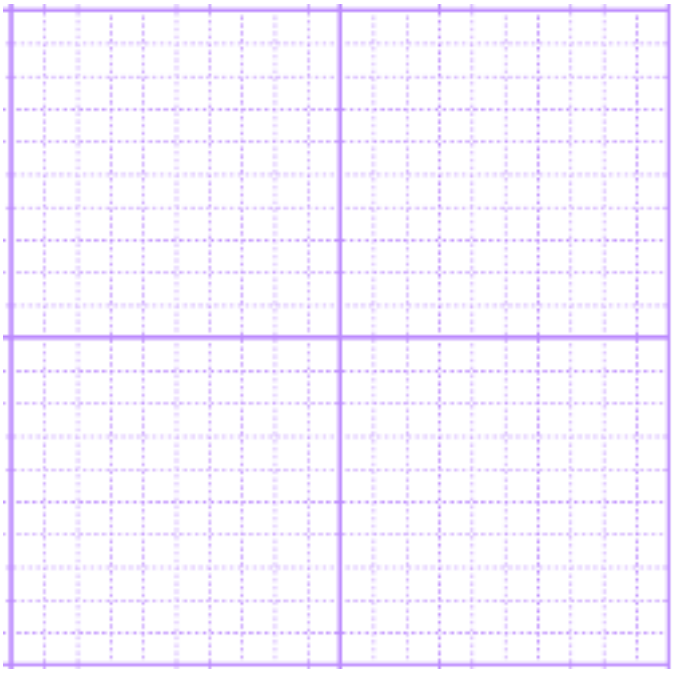


Graph Each of the following. Write intercepts as ordered pairs and write out description of line.

16. $4x - 3y = 9$ m = _____ incline / decline _____ y - int = _____
steep / shallow _____



17. $1x - 4y = 12$ m = _____ incline / decline _____ y - int = _____
steep / shallow _____



Write the following equations.

18. Parallel to $y = \frac{3}{5}x - 9\frac{2}{3}$ through $(-1 , 4)$ in **standard form**.

18._____

19. Perpendicular to $y = \frac{-3}{2}x - 13\frac{1}{7}$ through $(8 , -3)$ in **standard form**.

19._____

20. Parallel to $y = \frac{-1}{3}x - 9\frac{3}{7}$ through $(-9 , 2)$ in **slope-intercept form**.

20._____

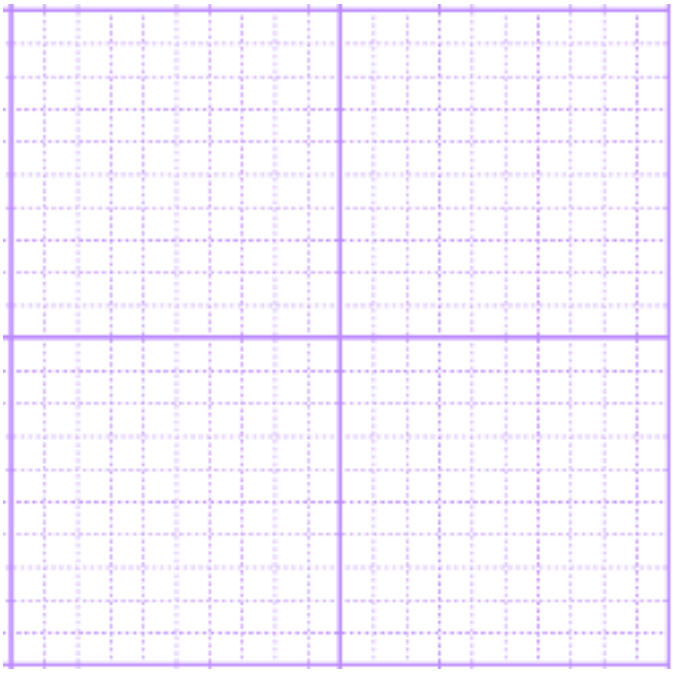
21. Perpendicular to $y = \frac{4}{3}x + 950$ through $(-4 , -1)$ in **slope-intercept form**.

21._____

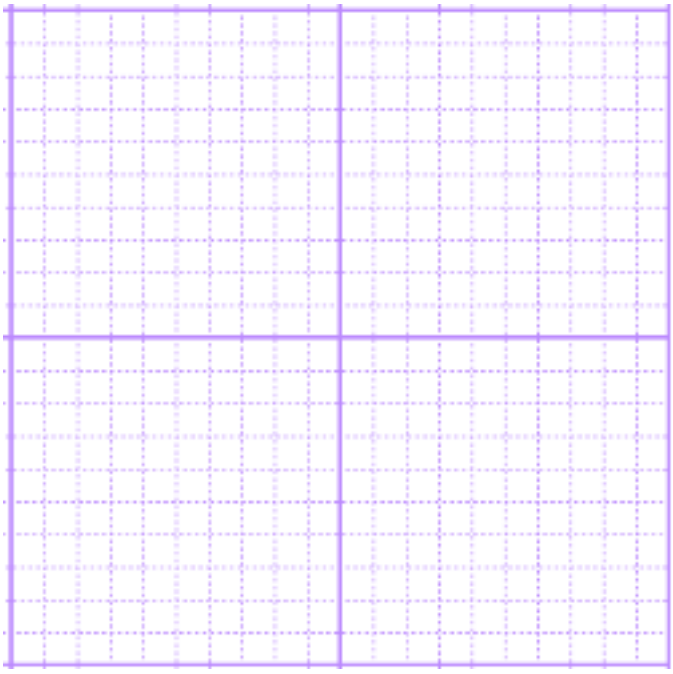
22. Perpendicular to $2x - 3y = 123$ through $(-2 , 3)$ in **standard form.**.

22._____

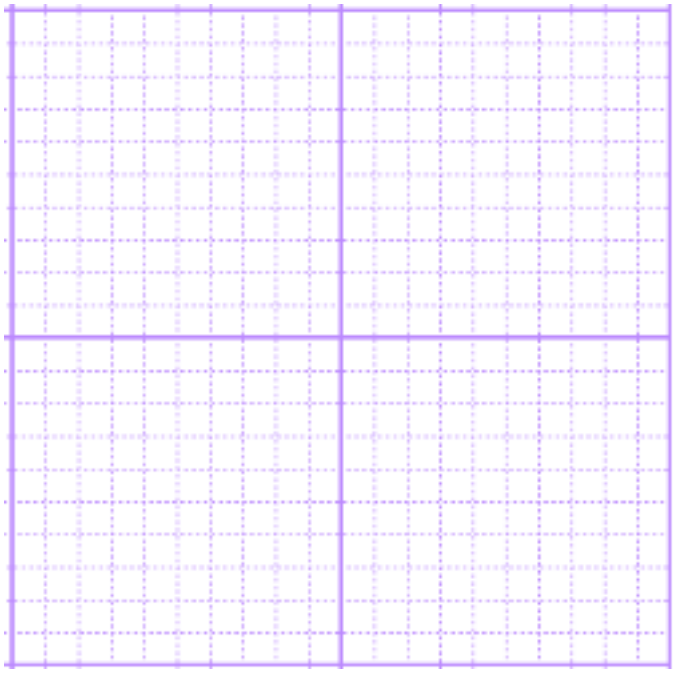
23. $y = 2$ m = _____ describe the line _____



24. $x = -5$ m = _____ describe the line _____



#25. $y = \frac{-3}{2}x + 4$



#26. $3x - 4y = 9$