Write the equation in both standard and slope intercept form.

1. $(4,-2)$
   $(8,-3)$

   Standard_____

   Slope Int_____

2. $(-6,1)$
   $(-8,2)$

   Standard_____

   Slope Int_____

3. $(8,-5)$
   $(3,-7)$

   Standard_____

   Slope Int_____

4. $(-2,5)$
   $m = \frac{-2}{3}$

   Standard_____

   Slope Int_____

   Point Slope _____

5. $(3,7)$
   $m = \frac{4}{5}$

   Standard_____

   Slope Int_____

   Point Slope _____

Write each equation in standard form

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

   Standard_____

7. $y = \frac{-3}{5}x + \frac{2}{5}$

   Standard_____

Write each equation in standard form

8. $y = \frac{3}{8}x + 2$ Standard_____

9. $y = \frac{-3}{7}x - \frac{4}{7}$ Standard_____

Write each equation in slope intercept form

10. $3x - 2y = 6$ Slope Int_____

11. $5x + 3y = 9$ Slope Int_____

12. $4x - 3y = 16$ Slope Int_____

13. $7x + 3y = 11$ Slope Int_____

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

14. $2x - 5y = 20$ m = _____ y - int = _____ x - int = _____

15. $3x + 7y = -14$ m = _____ y - int = _____ x - int = _____

16. $x - 3y = 12$ m = _____ y - int = _____ x - int = _____

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

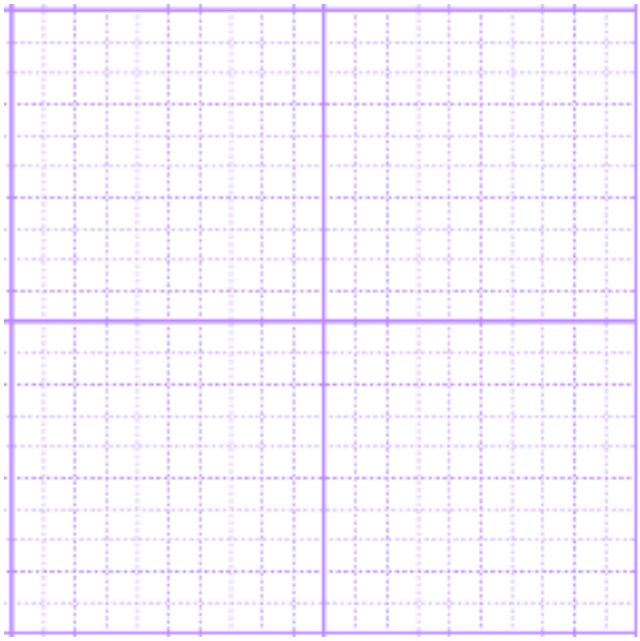
18. $y = \frac{-2}{3}x + 5$ m = _____ y - int = _____ x - int = _____

17. $y = \frac{1}{7}x - \frac{6}{7}$ m = _____ y - int = _____ x - int = _____

Graph Each of the following

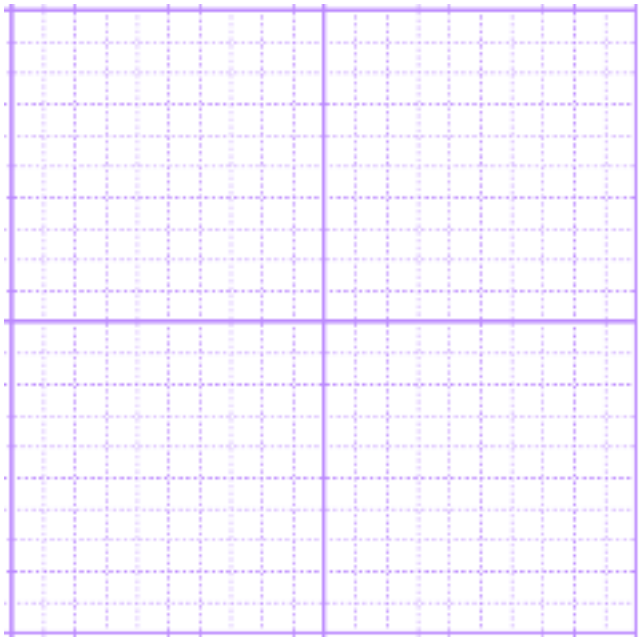
18. $y = \frac{3}{5}x - 2$ m = _____ goes "up or down" _____ y - int = _____

x	y



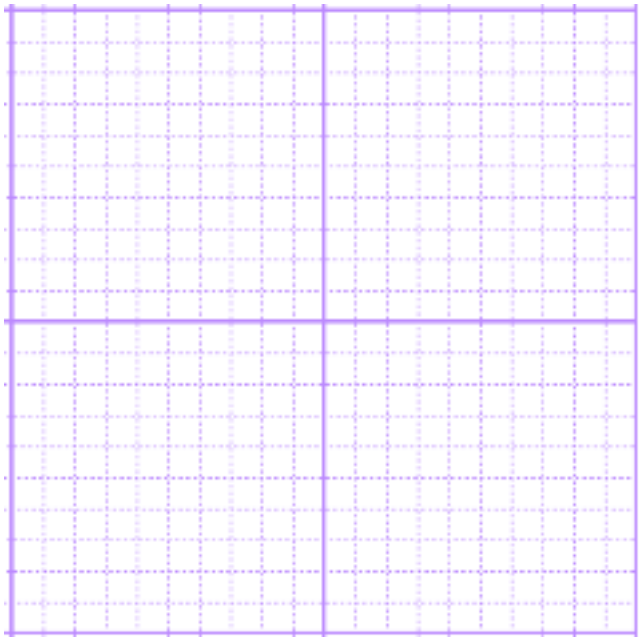
19. $y = \frac{-1}{3}x + 7$ m = _____ goes "up or down" _____ y - int = _____

x	y



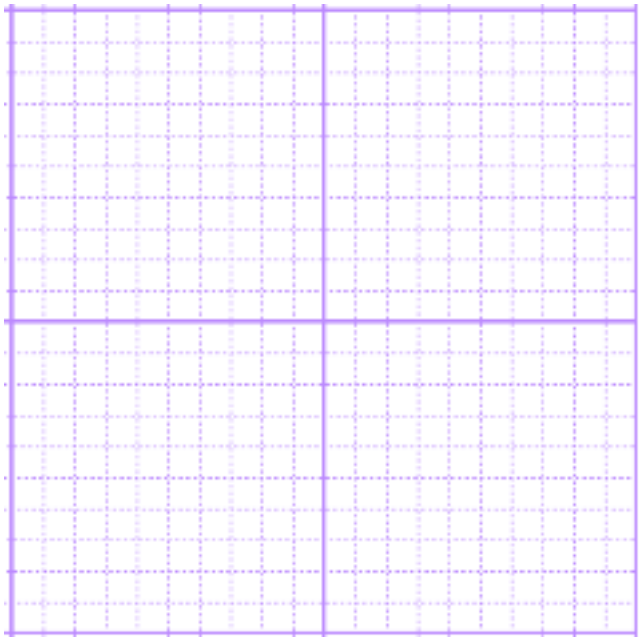
20. $y = \frac{2}{1}x + 3$ m = _____ goes "up or down" _____ y - int = _____

x	y



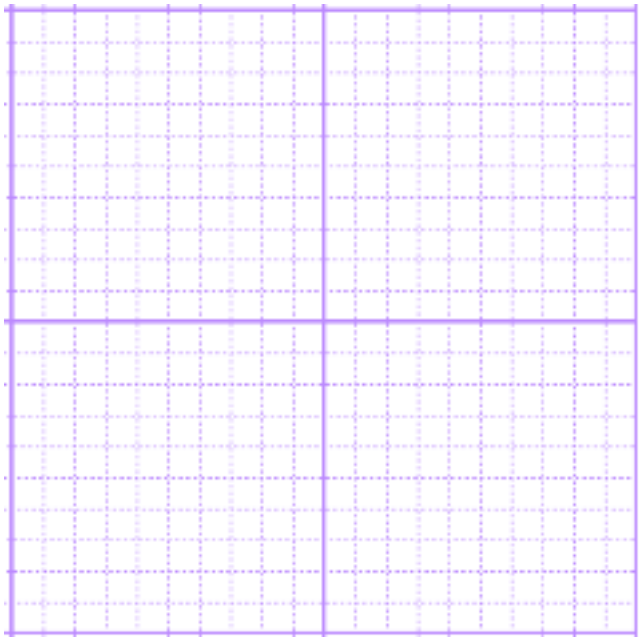
21. $3x - 2y = 6$ m = _____ goes "up or down" _____ y - int = _____

x	y



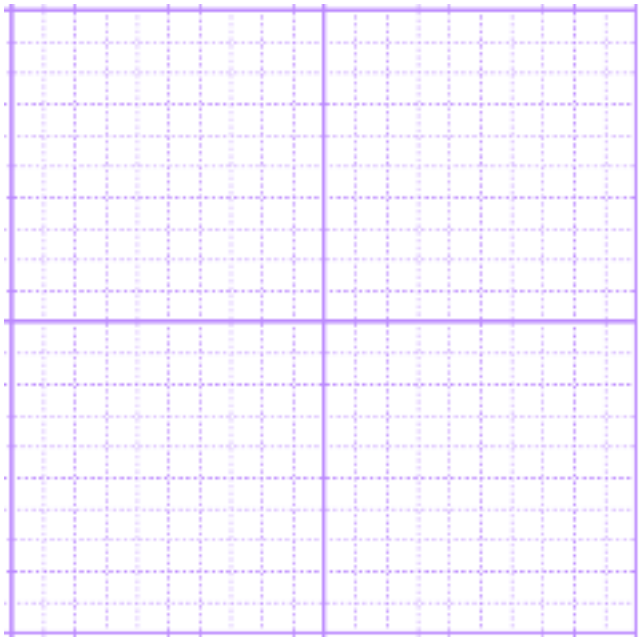
22. $5x + y = 3$ m = _____ goes "up or down" _____ y - int = _____

x	y



23. $2x - 3y = 9$ m = _____ goes "up or down" _____ y - int = _____

x	y



Write the following equations.

24. Parallel to $y = \frac{3}{4}x - 7$ through (5 , 7) in standard form.

24._____

25. Perpendicular to $y = \frac{2}{3}x - 5$ through (2 , 3) in standard form.

25._____

26. Parallel to $y = \frac{-1}{3}x - \frac{4}{7}$ through (–2 , 5) in slope intercept form.

26._____

27. Perpendicular to $y = \frac{-4}{3}x = 8$ through (8 , 1) in slope intercept form..

27._____

28. Parallel to $5x - 3y = 17$ through (1 , –2) in standard form.

28._____

29. Perpendicular to $x + 5y = -3$ through (2 , 3) in standard form.

29._____

30. Parallel to $3x - 5y = 145$ through (–6 , 5) in slope intercept form.

30._____

31. Perpendicular to $5x + 2y = 67$ through (15 , –2) in slope intercept form..

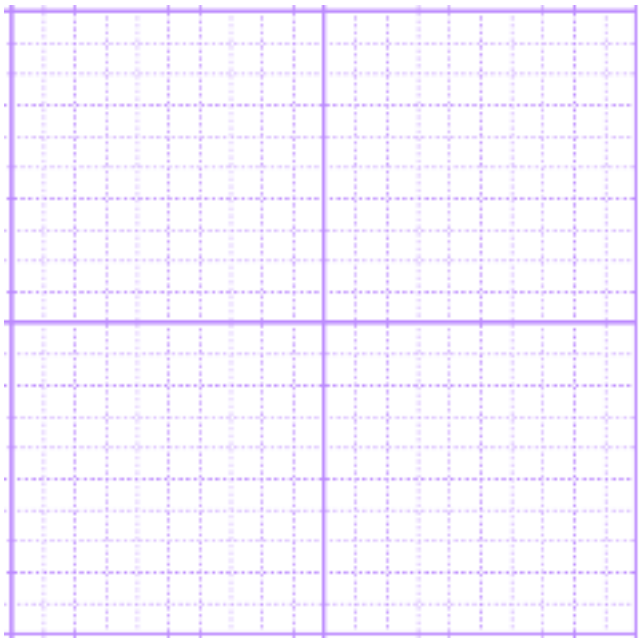
31._____

Working with point slope form.

32. $y+1=\frac{3}{2}(x-4)$ m = _____ goes "up or down" _____

standard form _____ slope intercept form _____

x	y



33. $y-3=\frac{-1}{2}(x+4)$ m = _____ goes "up or down" _____

standard form _____ slope intercept form _____

x	y