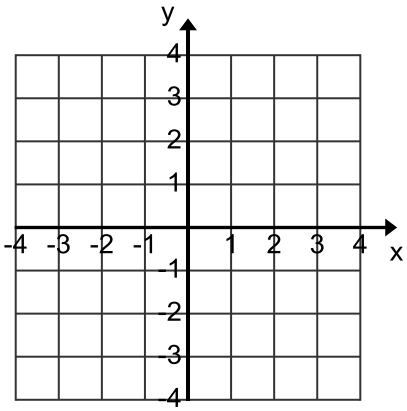
Algebra Chapter 5 Practice Test 2

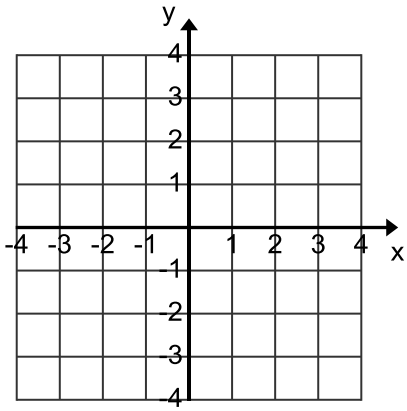
Name: _____

Graph the following inequalities on the given graphs.

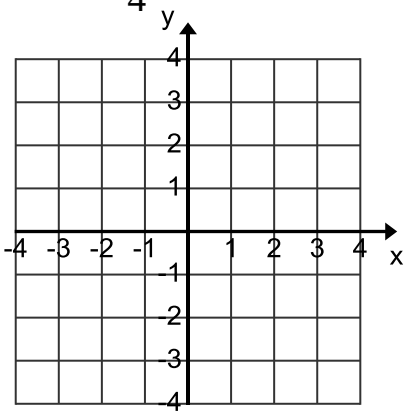
1. $y > -3x + 2$



2. $y \leq -x - 1$

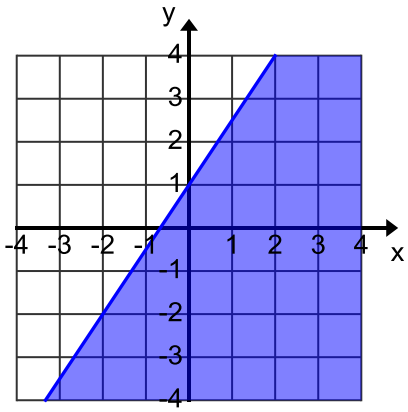


3. $y > \frac{3}{4}x + 1$

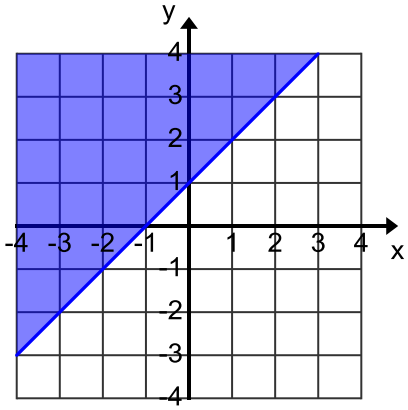


Tell what inequality is graphed below. Because the PDF version of this sheet makes dashed lines look solid, I will tell you what the line on each graph is.

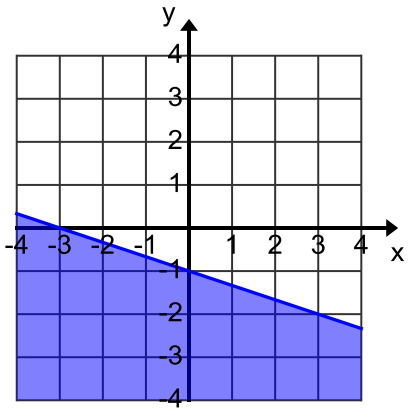
4. _____
Line is dashed.



5. _____
Line is solid.

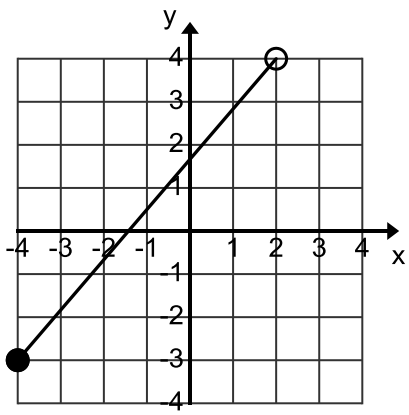


6. _____
Line is dashed.

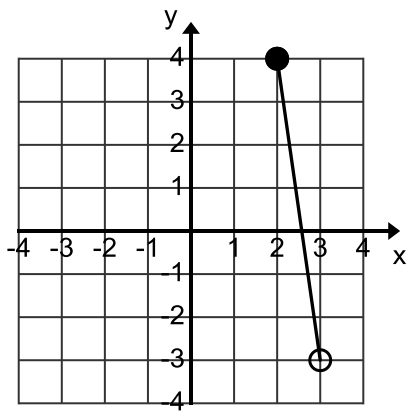


Give the domain and range of the graphs below.

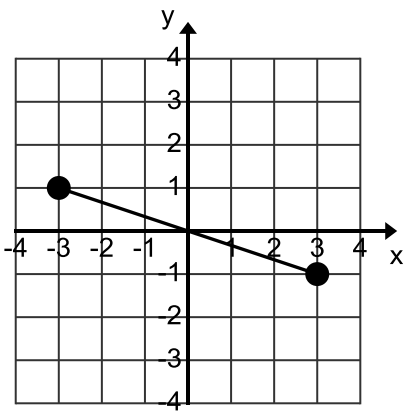
7. Domain = _____
Range = _____



8. Domain = _____
Range = _____

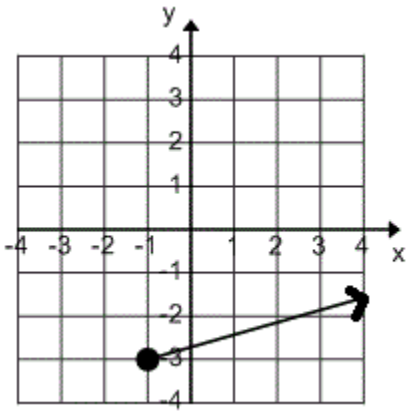


9. Domain = _____
Range = _____

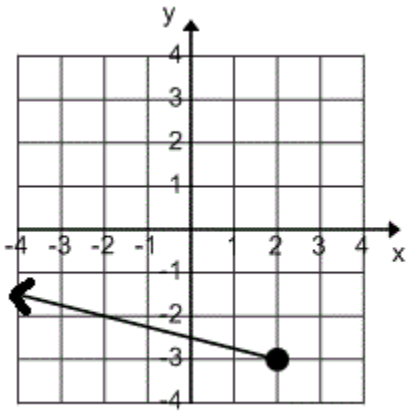


Give the domain and range of the graphs below.

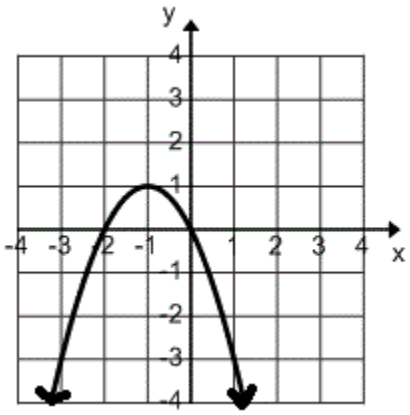
10. Domain = _____
    Range = _____



11. Domain = _____
    Range = _____

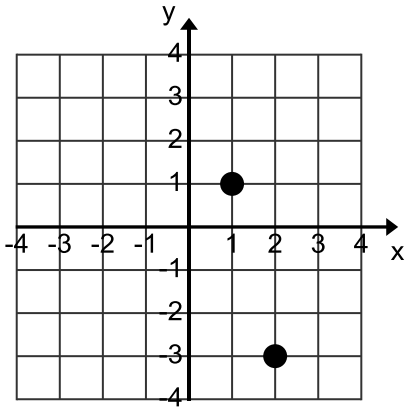


12. Domain = _____
    Range = _____

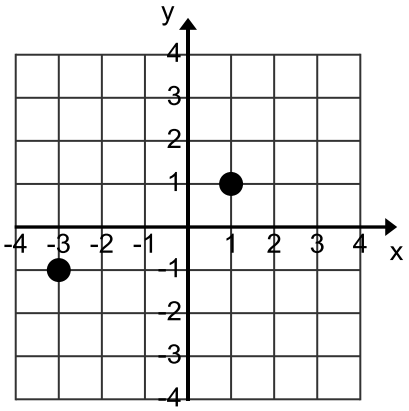


Look at the graphs below and calculate the slope between the two points. Some have a line drawn others don't. Don't forget about positive and negative slopes.

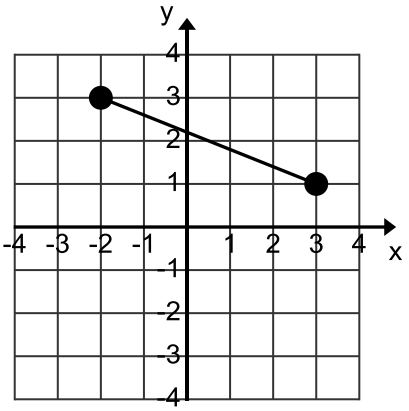
13. Slope = _____



14. Slope = _____



15. Slope = _____



Remember that Slope = $\frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x}$ **If the slope can be simplified, simplify it.**

16. (-3, 1) and (-1, 9) Slope = _____

17. (8, 5) and (7, 9) Slope = _____

18. (0, 1) and (3, -8) Slope = _____

19. (0, 5) and (-3, -4) Slope = _____

Put the equation into slope intercept form.

20. $3x + y = 12$ Slope intercept form: _____

21. $4x - 2y = 14$ Slope intercept form: _____

22. $x + \frac{1}{3}y = 2$ Slope intercept form: _____

23. $2x + \frac{2}{7}y = 4$ Slope intercept form: _____

24. $\frac{1}{4}x - 2y = 8$ Slope intercept form: _____

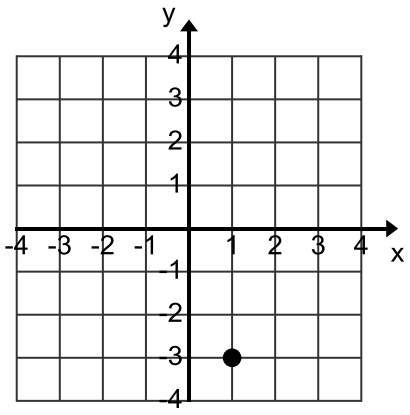
Given the slope of a line and a point on the graph, find another possible ordered pair.

25. Slope is -4. Another possible point is _____

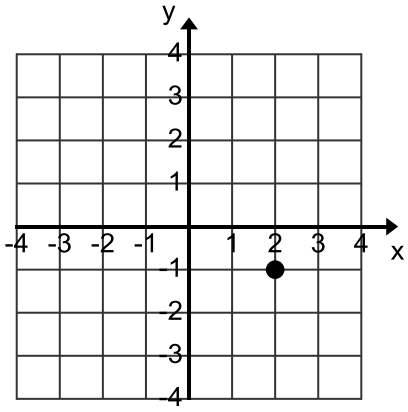
26. Slope is 2. Another possible point is _____

27. Slope is $-\frac{1}{4}$. Another possible point is _____

Graph for #25



Graph for #26



Graph for #27