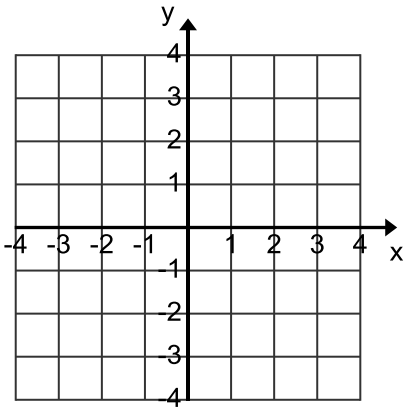
Algebra Chapter 5 Practice Test 1

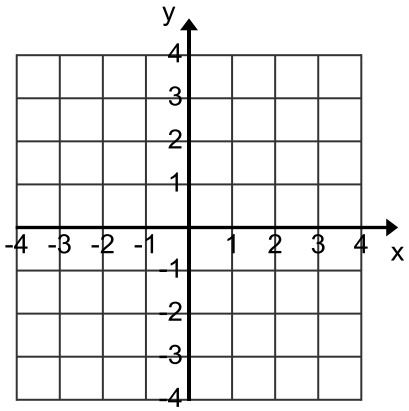
Name: _____

Graph the following inequalities on the given graphs.

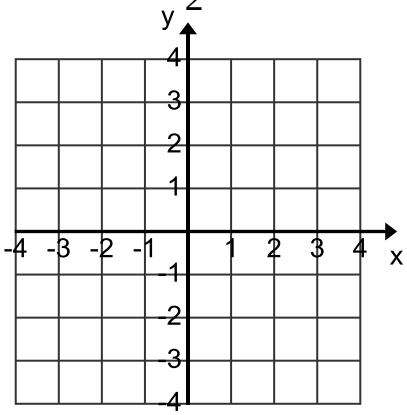
1. $y > 2x - 1$



2. $y \leq -3x - 3$

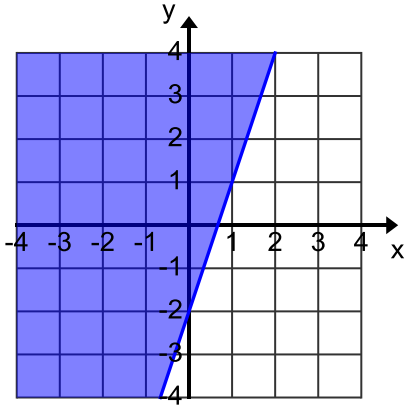


3. $y < \frac{3}{2}x + 1$

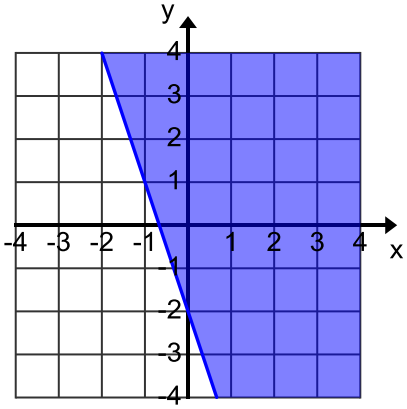


Tell what inequality is graphed below. Because the PDF version of this sheet makes dashed lines look solid, I will tell you what the line on each graph is.

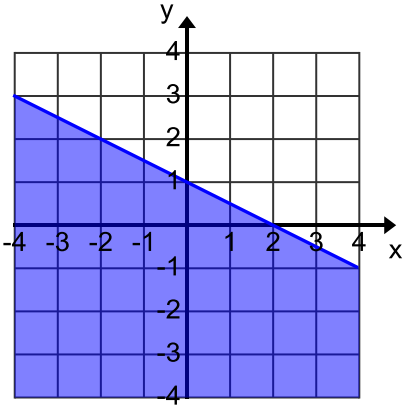
4. _____
Line is dashed.



5. _____
Line is solid.

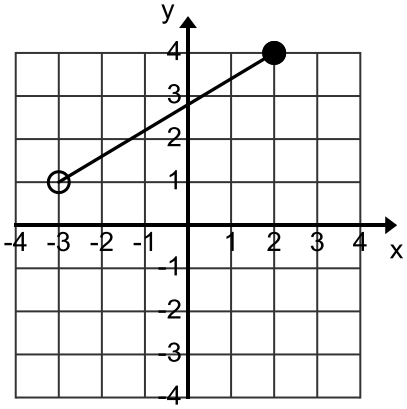


6. _____
Line is dashed.

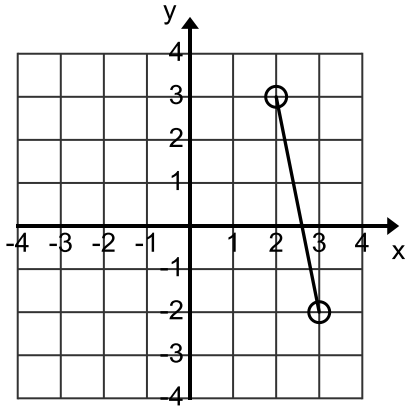


Give the domain and range of the graphs below.

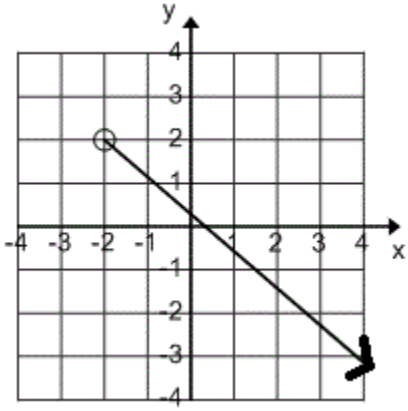
7. Domain = _____
Range = _____



8. Domain = _____
Range = _____

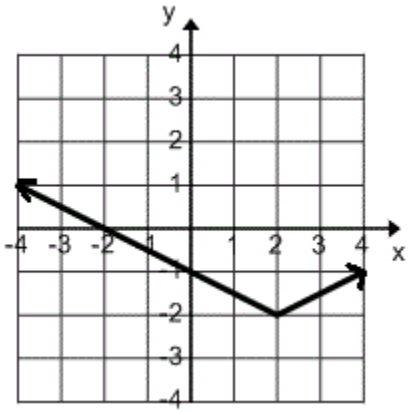


9. Domain = _____
Range = _____

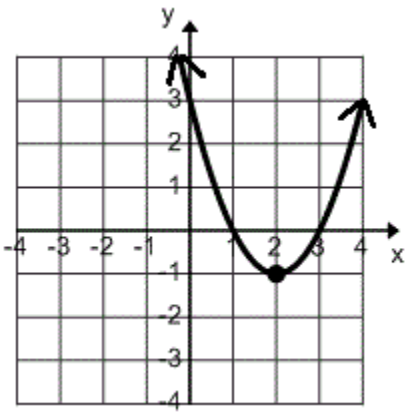


Give the domain and range of the graphs below.

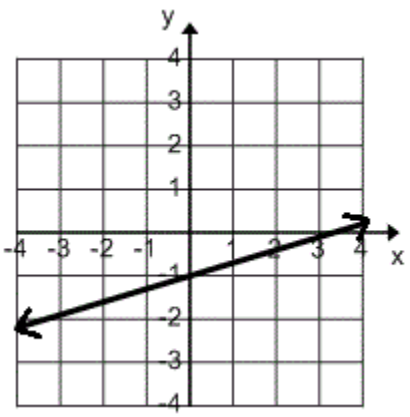
10. Domain = _____
    Range = _____



11. Domain = _____
    Range = _____

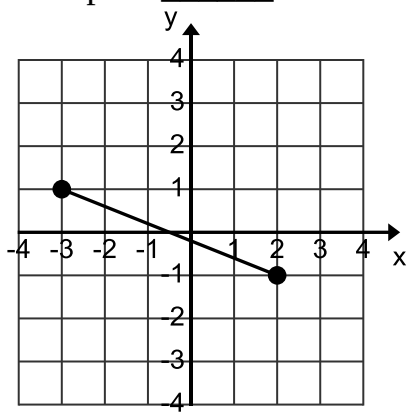


12. Domain = _____
    Range = _____

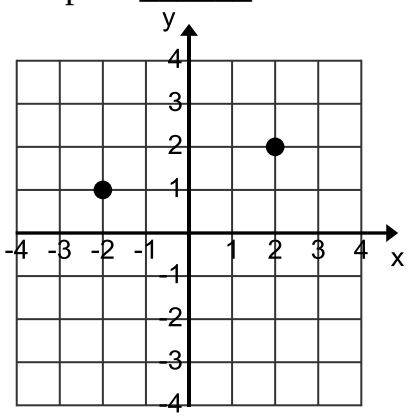


Look at the graphs below and calculate the slope between the two points. Some have a line drawn others don't. Don't forget about positive and negative slopes.

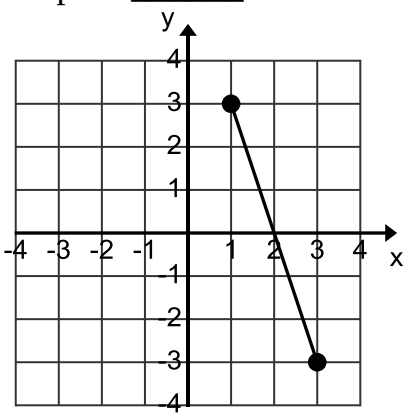
13. Slope = _____



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. (2, 5) and (4, 1) Slope = _____

17. (2, 5) and (3, 9) Slope = _____

18. (2, 1) and (3, -1) Slope = _____

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

Put the equation into slope intercept form.

20. $x + y = 9$ Slope intercept form: _____

21. $2x - y = 8$ Slope intercept form: _____

22. $6x + \frac{1}{4}y = 5$ Slope intercept form: _____

23. $x + \frac{2}{5}y = 4$ Slope intercept form: _____

24. $\frac{1}{3}x - 3y = 6$ Slope intercept form: _____

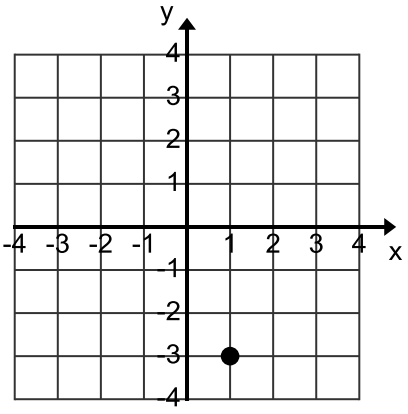
Given the slope of a line and a point on the graph, find another possible ordered pair.

25. Slope is -3. Another possible point is _____

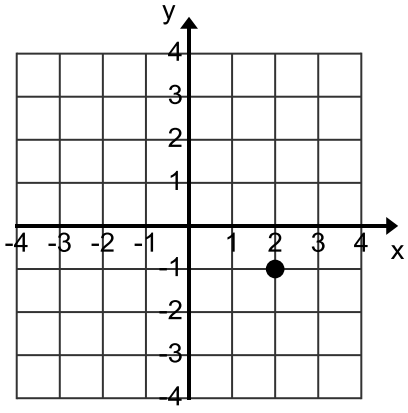
26. Slope is 4. Another possible point is _____

27. Slope is $-\frac{1}{3}$. Another possible point is _____

Graph for #25



Graph for #26



Graph for #27