

$2x - 5y = 12$       Solve this system by graphing, ( show tables of value for each line), substitution  
 $3x - 2y = 7$       and elimination

1. In  $5x + 2y = 20$ , what is x-intercept?
2. In  $3x - 5y = 30$ , what is y-intercept?
3. In #1, what is the slope?
4. The line  $x = -4$ , has what slope?
5. What is y intercept for #4?
6. What is x-intercept for #4?
7. Is  $x/2 - y/3 = -2$ , linear and why?
8. In  $2x - 1/3 y = 0$ , what is x-intercept?
9. How many solutions does the system below have, if any and why.  
 $2x - 3y = 4$   
 $3x + 2y = 6$
10. Same questions as #9 for the following:  
 $2y - 3x = 6$   
 $6x - 4y = 12$
11. Is  $y = -x$  linear and why?
12. Is  $2/x - 3/y = 0$  linear, why?
13. In  $y = -2x + 5$ , what is y-intercept?
14. In  $y = \frac{1}{2}x + 3$ , what is slope?
15. Is  $y = 2$ , horizontal or vertical?
16. In  $2x + 3y = 12$ , find 2 points on line
17. In  $2x - 5y = 6$ , is (2,2) a solution?
18. A line has a slope of 0, (3,4) is on the line. Find another point.
19. A line with  $m = -2/7$  has (-1, -2) on the line. Find another point on the same line.
20. Write  $2x - 5y = -6$ , in slope intercept form.