Worksheet 16- In Class Work   Name _____

1. A _____ line has a slope of zero. And the equation for this line through the point (a,b) is
_____.

2. A _____ line has an undefined slope (so it is not a true line). And the equation for this line
through the point (a,b) is _____.   What is the symbol for undefined? _____

3. Write the equation for slope when given two points (x_1, y_1) and (x_2, y_2) _____

3a. $\dfrac{0}{5}$ 3b. $\dfrac{8}{0}$

5. Write a fraction that is equal to zero   6. Write a fraction that is undefined

7. What is the reciprocal of $\dfrac{1}{5}$?   8. What is the reciprocal of 3 ?

9. The line 2x+4y = 8 crosses the x-axis at what point and crosses the y-axis at what point?

Write the slope of the following lines:
10.   y=4   11. x= 5

12. 2y + 3x = -4   13. the line parallel to 2y= -3x+4

14. the line perpendicular to y= -5x + 2   15.   –3y + 2x = 4

Write the equation of the line:
16. with slope –6 going though (-2,4)

17. with an undefined slope through the point (7,2)

18. going through (5,9) and (7,5)

19. that is horizontal through (2,1)

20. with a slope of zero through (1,1)

21. going through (-7,6) and (-8,7)