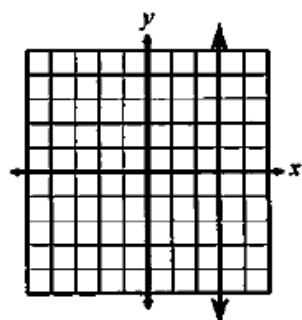


SPECIAL CASES: Vertical & Horizontal Lines

Vertical Lines

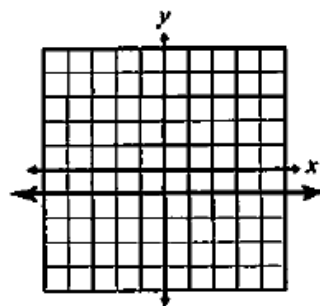
A vertical line is written in the form $x = a$, where a represents the line's x -intercept.



In this case, $x = 3$.

Horizontal Lines

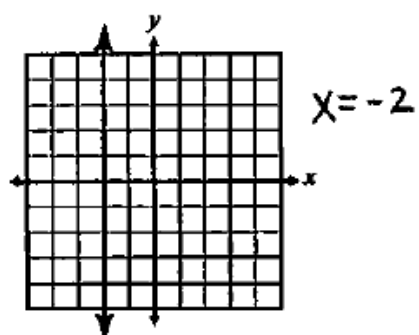
A horizontal line is written in the form $y = a$, where a represents the line's y -intercept.



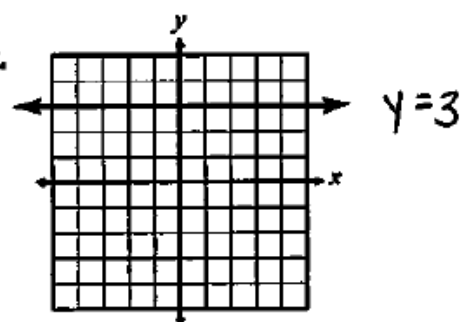
In this case, $y = -1$.

Directions: Write the equation of each line below.

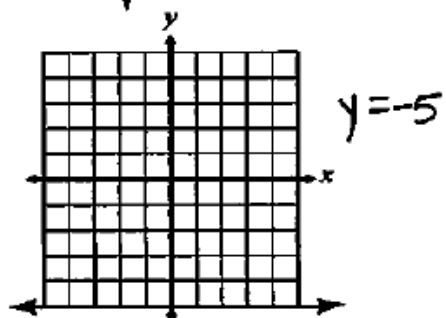
1.



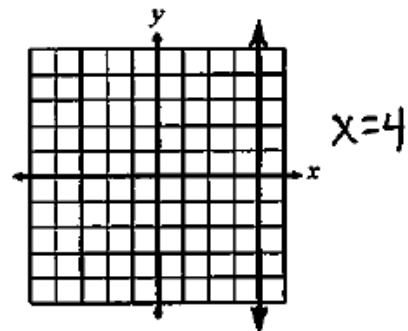
2.



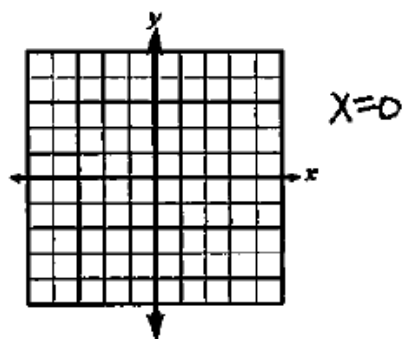
3.



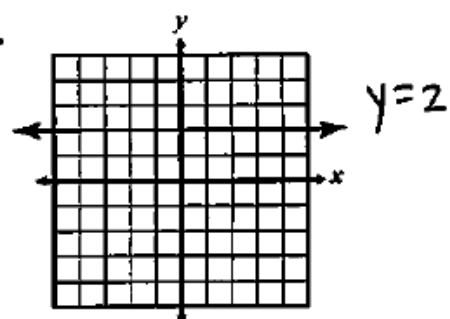
4.



5.

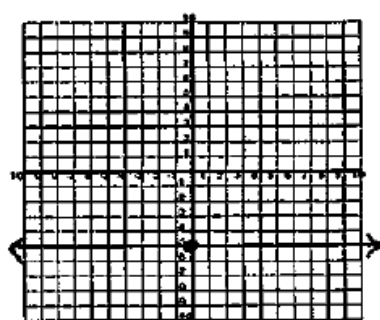


6.

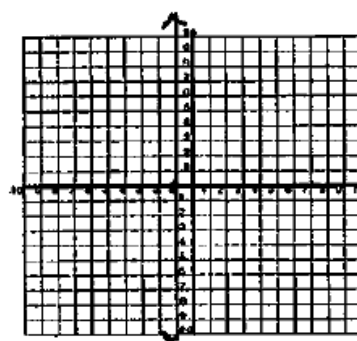


Directions: Graph the vertical and horizontal lines below.

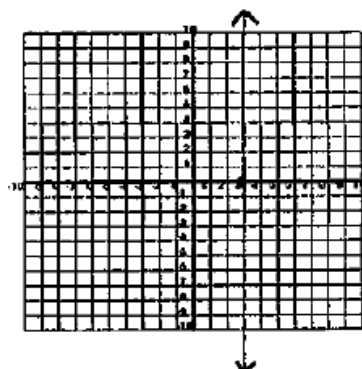
7. $y = -5$



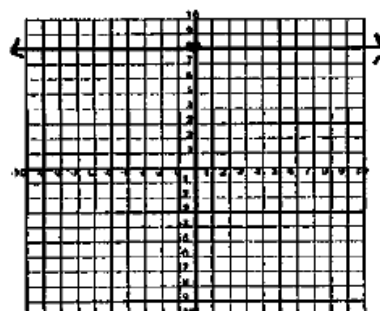
8. $x = -1$



9. $x = 3$



10. $y = 8$



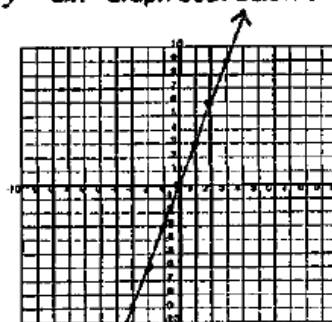
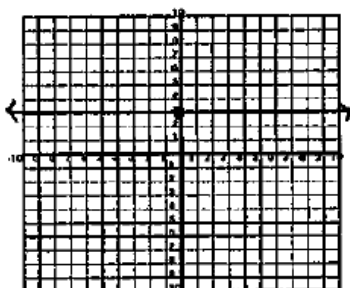
Some Questions...

11. What is the slope of the line $y = 5$? 0

12. What is the slope of the line $x = -2$? undefined

13. What is the slope of the line $x = 0$? undefined

14. What is the difference between the graphs $y = 3$ and $y = 3x$? Graph both below and explain.



The first graph has 0 slope + y-intercept of 3, where as the second graph has a slope of 3 + y-intercept of 0.