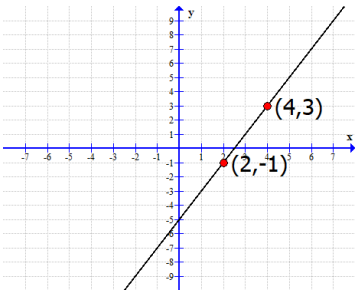
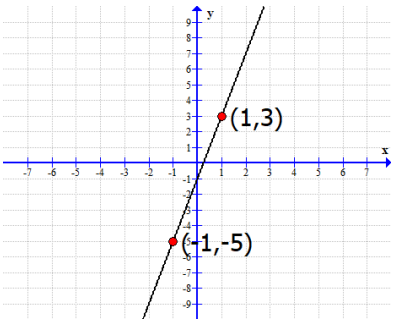
Section 2.2A – Slope of a Line

#1-8: Find the slope of the given line.

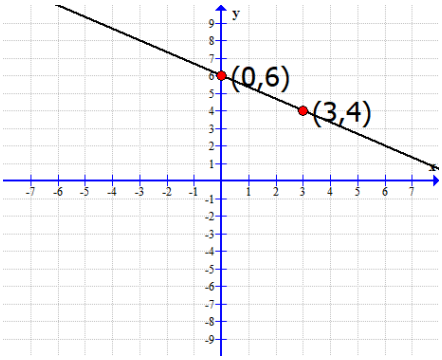
1)



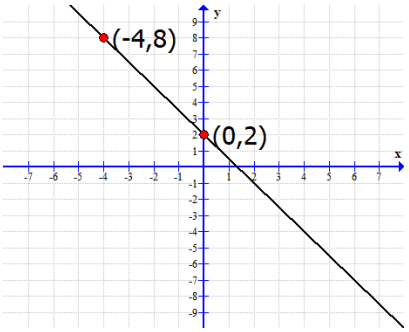
2)



3)

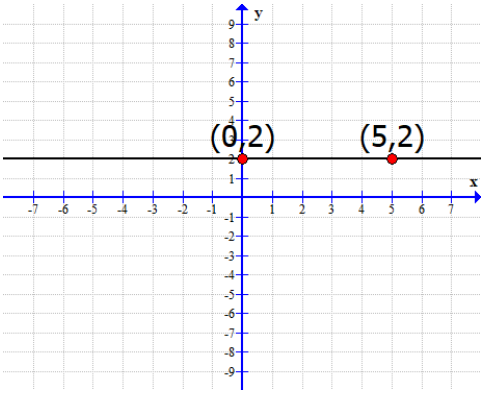


4)

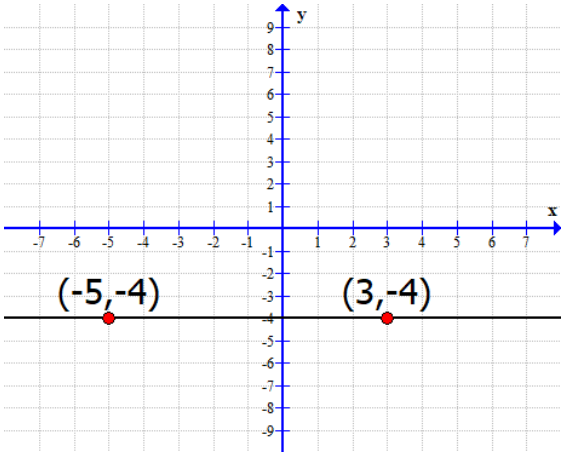


#1-8 continued: Find the slope of the given line.

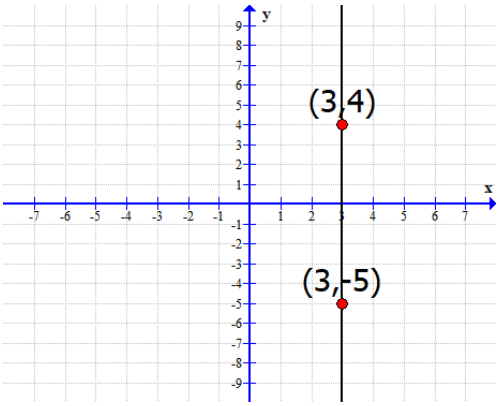
5)



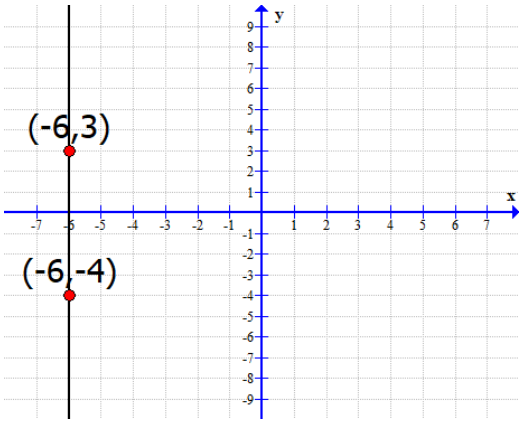
6)



7)



8)



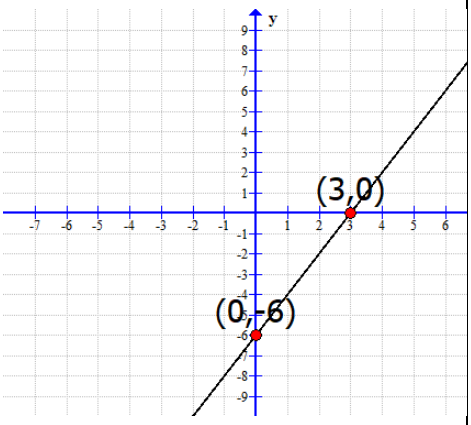
#9-16: Sketch the graph of the line. State the value of the slope and of the y-intercept, state if there is no y-intercept.

9) $y = \frac{3}{4}x - 5$ 10) $y = \frac{2}{3}x - 1$ 11) $y = \frac{-3}{2}x + 2$ 12) $y = \frac{-1}{4}x + 3$

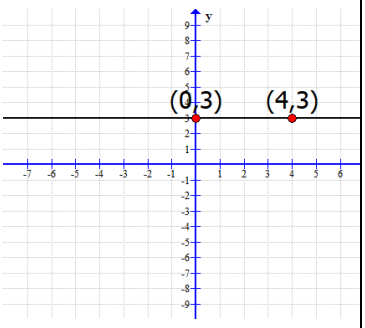
13) $x = 3$ 14) $x = 5$ 15) $y = -2$ 16) $y = -4$

#17 – 18: Find the equation of the line. Write your equation in slope-intercept form when possible.

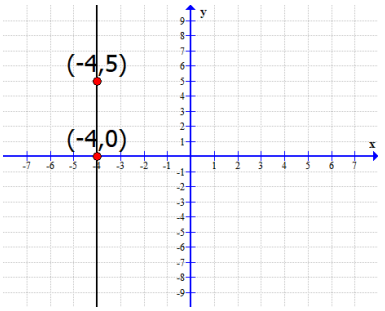
17a)



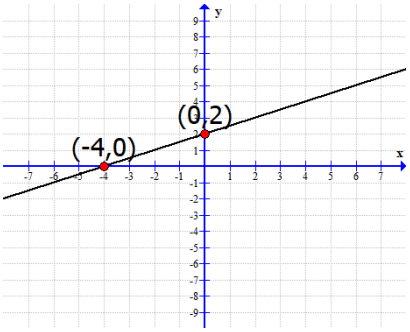
17b)



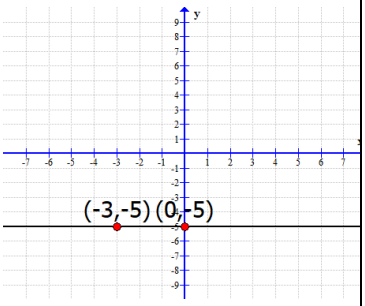
17c)



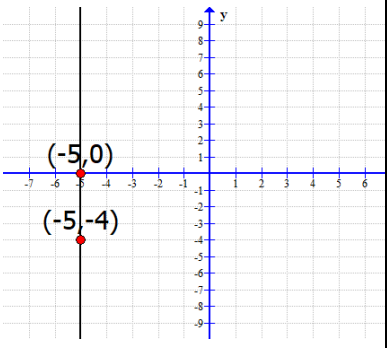
18a)



18b)



18c)



#19-26: Sketch the graph of a line passing through the given point with the indicated slope.

19) $point\ (3,-2)\ \ slope\ = \frac{1}{2}$

20) $point\ (-4,1\ )\ \ slope\ = \frac{3}{2}$

21) $point\ (-1,2)\ \ slope\ = \frac{-3}{4}$

22) $point\ (4,-3\ )\ \ slope\ = \frac{-2}{3}$

23) $point\ (5,6)\ slope = undefined$

24) $point\ (2,7)\ slope = undefined$

25) $point\ (0,6)\ slope = 0$

26) $point\ (2,4)\ slope = 0$

#27 – 34: Find the slope of the line that passes through the two points.

27) $first\ point\ (1,5)\ second\ point\ (3,-6)$

28) $first\ point\ (1,4)\ second\ point\ (7,-5)$

29) $first\ point\ (-2,-3)\ second\ point\ (4,7)$

30) $first\ point\ (-3,-4)\ second\ point\ (2,8)$

31) $first\ point\ (-2,5)\ second\ point\ (9,5)$

32) $first\ point\ (-3,2)\ second\ point\ (4,2)$

33) $first\ point\ (-2,0)\ second\ point\ (-2,9)$

34) $first\ point\ (-3,0)\ second\ point\ (-3,5)$