Lesson 6.5 Homework Algebra 1

Write the equation of the horizontal line through each point listed below.

1. (8, 15)
2. (-5, 12)
3. (-48, -22)
4. (16, -31)

Write the equation of the vertical line through each point listed below.

5. (7, 13)
6. (-4, 21)
7. (-8, -50)
8. (16, -25)

Write the equation of the line that is PARALLEL to the given line (My Line) and through the given point.

9. My line: $y = 3/5x + 7$, Given Point: (3, -5)
10. My line: $y = 4x - 1$, Given Point (-7, 2)
11. My line: $y = -\frac{1}{2}x + 9$, Given Point (11, 15)

Calculate the slope perpendicular to the given slope.

12. $m = 2/7$
13. $m = -3/2$
14. $m = 6$
15. $m = -7$

Write the equation of the line that is PERPENDICULAR to the given line (My Line) and through the given point.

16. My line: $y = 3/4x - 8$, Given Point: (6, 7)
17. My line: $y = -5/6x + 10$, Given Point: (-11, 14)
18. My line: $y = 3x + 2$, Given Point: (-9, 1)
19. My line: $y = -10x - 4$, Given Point: (25, -12)