The Weekly Rigor

16 Problems in Finding Linear Functions
(Part 1)

PROBLEMS

1. Find the equation of the line with y-intercept 7 and slope 2.

2. Find the equation of the line with point $(1, -8)$ and slope -3.

3. Find the equation of the line with points $(2,5)$ and $(4,7)$.

4. Find the equation of the line with x-intercept 2 and y-intercept -8.

5. Find the equation of the line parallel to $y = -2x - 3$ that goes through $(1,1)$.

6. Find the equation of the line perpendicular to $y = \frac{1}{3}x - 4$ that goes through $(-2,7)$.

7. Find the equation of the line with x-intercept $\frac{-1}{5}$ and y-intercept 2.

8. Find the equation of the line with points $(0,0)$ and $(1,5)$.

9. Find the equation of the line perpendicular to $y = \frac{1}{2}x + 1$ that goes through $(-3,6)$.

10. Find the equation of the line with point $\left(0, \frac{9}{5}\right)$ and slope $\frac{2}{3}$.

11. Find the equation of the line with points $(3, -8)$ and $(-3, 0)$.

12. Find the equation of the line with the point $(-18, 5)$ and y-intercept -3.

13. Find the equation of the line perpendicular to $y = -x - 4$ that goes through $(1, 10)$.

14. Find the equation of the line with x-intercept 5 and y-intercept 4.

15. Find the equation of the line with points $(2, 4)$ and $(3, 9)$.

16. Find the equation of the line perpendicular to $y = 6x - 9$ that goes through $(3, 9)$.

ANSWERS

1. $y = 2x + 7$	2. $y = -3x - 5$
3. $y = x + 3$	4. $y = 4x - 8$
5. $y = -2x + 3$	6. $y = -3x + 1$
7. $y = 10x + 2$	8. $y = 5x$
9. $y = -2x$	10. $y = \frac{2}{3}x + \frac{9}{5}$
11. $y = \frac{-4}{3}x - 4$	12. $y = -\frac{4}{9}x - 3$
13. $y = x + 9$	14. $\frac{-4}{5}x + 4$
15. $y = 5x - 6$	16. $y = -\frac{1}{6}x + \frac{19}{2}$