Geometr	γ
Chapter	-

Name	
Per	

Writing Equations of Lines

Write an equation of a straight line that meets the following conditions:

- 1. A line that passes through the points (2, -6) and (-3, 4).
- 2. A line through the point (4, 6) and perpendicular to the line 3x + 4y = 6.
- 3. A line with a slope of $-\frac{2}{3}$ and that passes through the point (6, -4).
- 4. A line through the origin and perpendicular to the line x 3y = -9.
- 5. A line of y-intercept 4, and slope $-\frac{2}{7}$.
- 6. A line parallel to -2x + y = 6 and through the point (-3, 8).
- 7. A line perpendicular to the line through (2, -3) and (6, 4) with the same y-intercept as the line 3x 4y = 24.
- 8. A line through the points (6, -8) and (-4, 3).
- 9. A line of $m = -\frac{3}{5}$ and b = 6.
- 10. A line parallel to -3x + y = 10 with b = 7.
- 11. A line perpendicular to -4x + y = -6 and the same y-intercept as 2x y = 4.
- 12. A line through the point (-2, 6) and parallel to the line 5x 4y = 20.
- 13. A line that is the perpendicular bisector of the points (8, 4) and (14, 10).