Writing Linear Equations
Unit 3: Introduction to Functions

Write the slope-intercept form of the equation of each line given the slope and y-intercept:

1. $Slope = -3, y - intercept = -1$	2. $Slope = -7, y - intercept = -3$
3. $Slope = 3, y - intercept = -3$	4. $Slope = \frac{5}{3}, y - intercept = 0$
5. $Slope = \frac{7}{5}, y - intercept = 3$	6. $Slope = -\frac{1}{2}, y - intercept = -5$
7. $Slope = -\frac{4}{5}, y - intercept = -1$	8. $Slope = 7, y - intercept = 5$
9. $Slope = \frac{3}{4}, y - intercept = 0$	10. $Slope = 3, y - intercept = -4$

Write the point-slope form of the equation of the line through the given point with the given slope:

11. $through: (2, -3), \quad slope = -\dfrac{3}{2}$	12. $through: (-4, 4), \quad slope = -\dfrac{3}{4}$
13. $through: (-3, -4), \quad slope = \dfrac{5}{3}$	14. $through: (-2, -3), \quad slope = -\dfrac{1}{2}$
15. $through: (3, 5), \quad slope = \dfrac{7}{3}$	16. $through: (-4, 2), \quad slope = -\dfrac{1}{2}$
17. $through: (1, 3), \quad slope = 0$	18. $through: (5, 1), \quad slope = -\dfrac{3}{2}$
19. $through: (-2, 1), \quad slope = 1$	20. $through: (-2, -3), \quad slope = \dfrac{5}{2}$