Equations of Lines

Using the slope intercept form of the equation of a line \( y = mx + b \), write the equation of the line with:

1. slope = 5, y intercept = 2
2. slope = 4, y intercept = -5
3. slope = -1, y intercept = -2
4. slope = 6, y intercept = 0
5. slope = 0, y intercept = 6
6. slope = 0.25, y intercept = -1.3
7. slope = 1.5, y intercept = 0
8. slope = -1.5, y intercept = -2
9. slope = 6, y intercept = 0
10. slope = 0, y intercept = -2.5

Using the point slope form of the equation of a line \( y - y_1 = m(x - x_1) \), write the equation of the line:

11. through (2, 3) with slope = 2
12. through (-1, 2) with slope = -4
13. through (5, 2) with slope = 0
14. through (-2, -3) with slope = 2
15. through (-1, 2) and (-3, 4)
16. through (2, 0) and (0, 3)
17. through (-1, -3) and (6, -2)
18. through (1, -2) and (0, 0)
19. through (-2, 3) and (-5, 3)
20. through (-2, 3) and (-2, 5)