

Write the equation of the line in point slope form, then rewrite it in slope-intercept form.

1. $m = 2$, $(1, -3)$ 2. $m = 3$, $(-4, 6)$ 3. $m = 1/3$, $(6, -4)$

Write the equation (in point slope form) of the line that goes through the point, and is **parallel to the line listed.** Then rewrite the equation in slope-intercept form.

4. $(-8, 5)$ and $y = \frac{3}{4}x - 48$ 5. $(2, -3)$ and $y = -5x + 16$ 6. $(-4, 1)$ and $y = \frac{-1}{2}x + 19$

7. $(-7, 4)$ and $y = 2x - 3$ 8. $(3, 0)$ and $y = -x + 6$ 9. $(-6, 7)$ and $y = \frac{-4}{3}x + 5$

Write the equation of the line (in point slope form) that goes through the point, and is **perpendicular to the line listed.** Then rewrite the equation in slope-intercept form.

10. $(-6, 1)$ and $y = \frac{3}{4}x - 48$ 11. $(10, -3)$ and $y = -5x + 16$ 12. $(-4, 1)$ and $y = \frac{-1}{2}x + 19$

13. $(4, -7)$ and $y = 2x - 3$ 14. $(3, 0)$ and $y = -x + 6$ 15. $(-8, 2)$ and $y = \frac{-4}{3}x + 5$

Write the equation of the line through the following points in point-slope form, then rewrite in slope intercept form.

16. $(2, 4)$ and $(5, 7)$

17. $(5, -2)$ and $(7, -10)$

18. $(-3, 4)$ and $(-2, 7)$

19. $(-3, -4)$ and $(-6, 2)$

20. $(2, 6)$ and $(3, 8)$

21. $(-4, -5)$ and $(-8, 11)$