

Algebra 2

Writing Equations of Lines

Write an equation of the line that has the given slope m and y -intercept b .

1. $m = -7$, $b = 0$

2. $m = 3/2$, $b = -3$

Write an equation of the line that passes through the given point and has the given slope.

3. $(0,2)$, $m = 3$

4. $(-13,0)$, $m = 6/7$

5. Write an equation of the line that passes through the given point and is parallel to the given line.

$(2,5)$, $y = 2x - 1$

6. Write an equation of the line that passes through the given point and is perpendicular to the given line.

$(4, -1), y = (-4/3)x - 3$

Write an equation of the line that passes through the given points.

7. $(4,7), (3,4)$

8. $(0,2), (-2, -1)$

9. $(-8,10), (-2,17)$