

Linear Functions

A. Determine the indicated characteristics:

1. slope and y-intercept of the equation:
 $y = (2/3)x - 6$

2. The slope and y-intercept of the equation $5x - 2y = 7$

3. slope of the line segment joining the points $(-5, 1)$ and $(-12, 9)$

B. Determine the equation of the following linear functions given the indicated information:

1. slope is $2/3$ and the y-intercept is 7

2. $m = -5/3$ and $b = -2$

3. slope is $4/7$ and contains the point $(-1, 4)$

4. $m = -7/2$ and the point is $(-4, -3)$

5. passing through the points $(5, 4)$ and $(-3, 10)$

6. Passing through the points $(11, -2)$ and $(4, 4)$

7. passing through $(-7, 1)$ and parallel to the equation $-5x + 4y = 11$

8. passing through $(-5, -3)$ and perpendicular to the line segment passing through $(-9, 5)$ and $(-13, 3)$

9. equation of the perpendicular bisector of the line segment $(-6, 11)$ and $(12, -7)$