

Math 1513 - College Algebra

Quiz #9 - 2018.09.14

Solutions

Write an equation of the line perpendicular to the line $y = -\frac{2}{3}x + 1$ which passes through the point $(-2, 3)$.

The slope of the perpendicular line will be $\frac{3}{2}$, and we can use the point-slope form of the line to arrive at the equation:

$$y - 3 = \frac{3}{2}(x + 2),$$

which we can write in slope-intercept form as

$$y = \frac{3}{2}x + 6$$