



IIT Madras
ONLINE DEGREE

Examples

Find the equation of a line perpendicular to the line $x - 2y + 3 = 0$ and passing through the point $(-1, 2)$.

The slope of the given line is $m_1 = \frac{1}{2}$.

The slope of a line perpendicular to the given line is $m_2 = -1/m_1 = -2$.

To find the equation of the line passing through the point $(-1, 2)$ and slope -2 .

$(y - 2) = -2(x + 1)$ or $y = -2x$.

