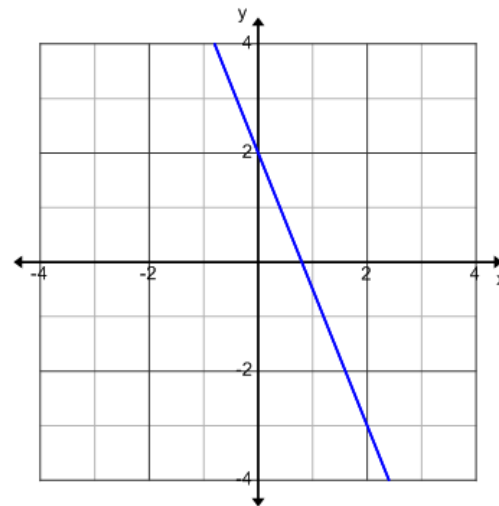


U6D6 Warm Up:

Find the equation of a line that is perpendicular to $y = 3x$ and that passes through the point $(-2, 6)$.

U6D6 Finding an Equation Given 2 Points

Case A: Finding equation of a line from the graph



Case B: Find equation of a line given slope and a point

Example - find equation of a line with slope -3 and passing through the point $(-1, 2)$.

Case C : Find equation of a line given two points.

Example find the equation of the line that passes through the points $(4, 3)$ and $(7, 9)$.

Example 1: Find an equation for the line passing through $(-3,1)$ and $(-2,-5)$.

Example 2: Find an equation for the line passing through the point $(4,5)$ and with an x intercept of 8.

Example 3: Find an equation for the line passing through the point $(4,5)$ and with a y intercept of 3.