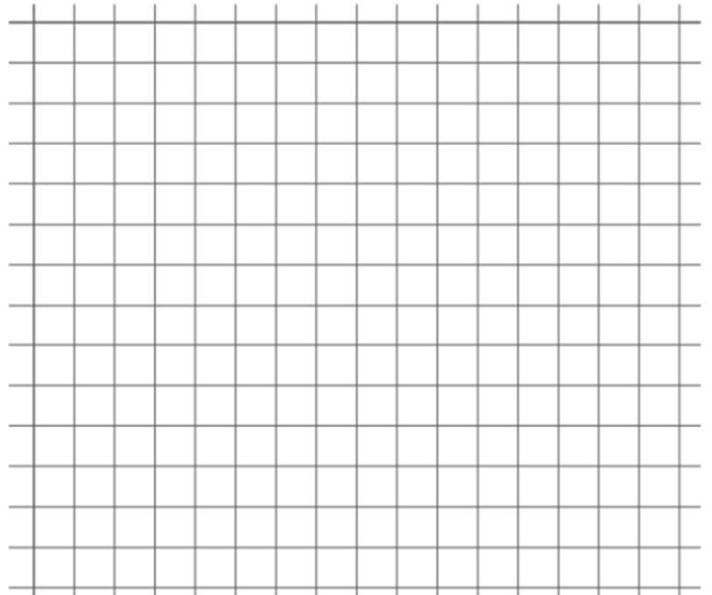# Linear Equations in Two Variables

1. Is the point $(1, 3)$ a solution to the linear equation $5x - 9y = 32$? Explain.

2. Find three solutions for the linear equation $4x - 3y = 1$, and plot the solutions as points on a coordinate plane.

x	Linear Equation: $4x - 3y = 1$	y

Linear Equations in Two Variables

1. Is the point $(1, 3)$ a solution to the linear equation $5x - 9y = 32$? Explain.

   No, $(1,3)$ is not a solution to $5x - 9y = 32$ because $5(1) - 9(3) = 5 - 27 = -22$, and $-22 \neq 32$.

2. Find three solutions for the linear equation $4x - 3y = 1$, and plot the solutions as points on a coordinate plane.

x	Linear Equation: $4x - 3y = 1$	y
1	$4(1) - 3y = 1$ $4 - 3y = 1$ $-3y = -3$ $y = 1$	1
4	$4x - 3(5) = 1$ $4x - 15 = 1$ $4x = 16$ $x = 4$	5
7	$4(7) - 3y = 1$ $28 - 3y = 1$ $-3y = -27$ $y = 9$	9