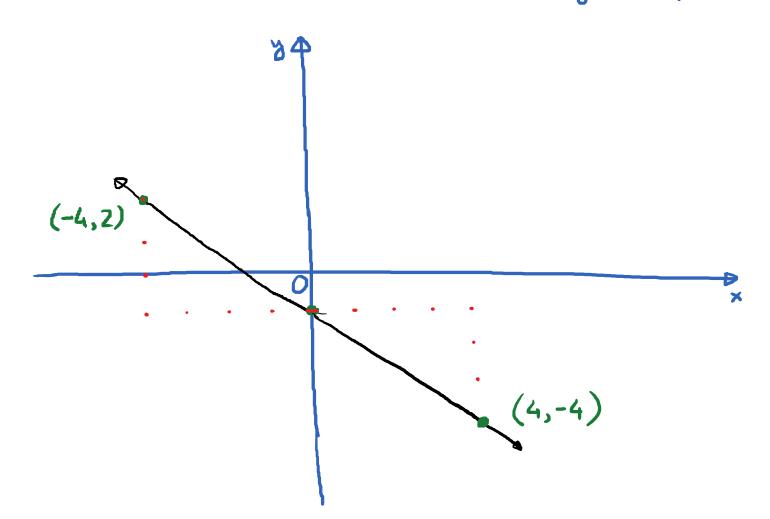
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E.x.
$$f(x) = -\frac{3}{4}x - 1$$
. Graph using slope and
y-intercept.



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The graph of x = a is a vertical line with x-intercept (a, 0) and slope undefined. y = 6 6,6) (0,0) Slope undefined. Slope = 0. 6) Parallel and Perpendicular Lines If 2 lines are vertical, then they are parallel. For nonvertical lines, 2 lines are parallel if and only if they have the same slope.

A vortical line and a horizontal line are perpendicular. For nonvertical and nonhorizontal lines, 2 lines are perpendicular if and only if the product of their Alopes is -1. In other words, one slope is the negative reciprocal of the other slope.

E.g.
$$y = 2x - 5$$
; $2y - 4x = 3$
(L1) (L2)
 $Q: Are(L_1) and(L_2) parallel or perpendicular or
neither?$

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