

Graphing Linear Equations

A simple way to graph linear equations is to find any two points that satisfy the equation and then draw a straight line through them.

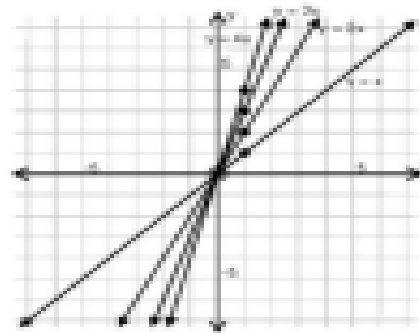
Consider these sets of similar linear equations:

Example 1: $y = x$, $y = 2x$, $y = 3x$, $y = 4x$

Solution:

$y = x$	$y = 2x$
x	x
0	0
1	2

$y = 3x$	$y = 4x$
x	x
0	0
1	4

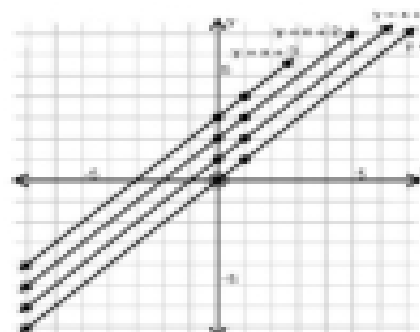


Example 2: $y = x$, $y = x + 1$, $y = x + 2$, $y = x + 3$

Solution:

$y = x$	$y = x + 1$
x	x
0	1
1	2

$y = x + 2$	$y = x + 3$
x	x
0	2
1	3



Note that these lines are all parallel.