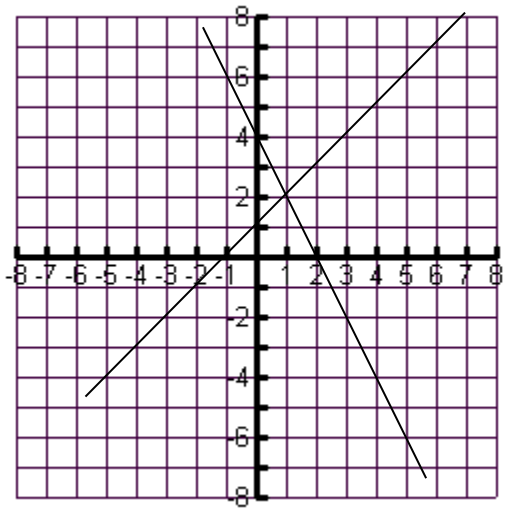
MFM2P – Linear Systems – Day 2: Solving Systems Graphically

1. Find the point of intersection. (Solve the system using **graphical method**.)
2. Check your solution using the L.S. R.S. method.

a) $y = x + 1$
$y = -2x + 4$



Point of intersection is : (1, 2)

Check

$y = x + 1$

Sub in
x = 1 and y = 2

L.S.	R.S.
y = (**2**) = 2	x + 1 = (**1**) + 1 = 2

L.S. = R.S.

The point is on the line

$y = -2x + 4$

Sub in
x = 1 and y = 2

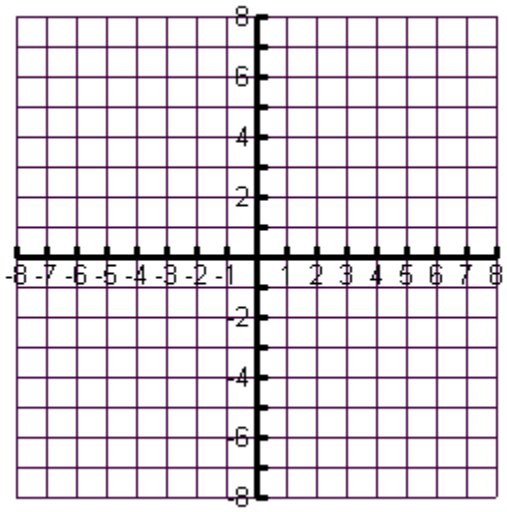
L.S.	R.S.
y = (**2**) = 2	-2x + 4 = -2(**1**) + 4 = -2 + 4 = 2

L.S. = R.S.

The point is on the line

Because the point is on both lines, it is the POI

b) $y = -x - 2$
$y = 2x + 7$

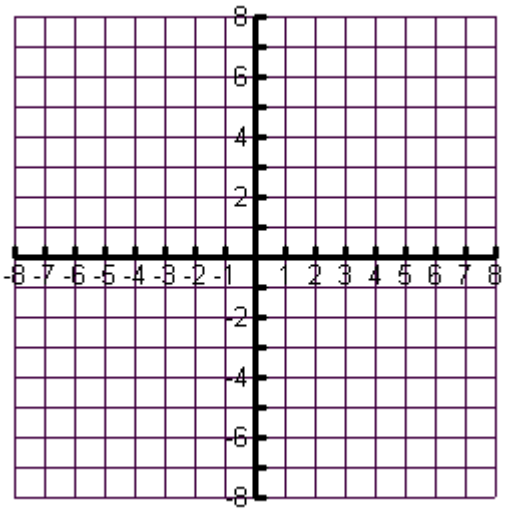


Point of intersection is:_____

Check

$y = -x - 2$	$y = 2x + 7$

c) $y = 2x + 1$
$y = 4x - 4$

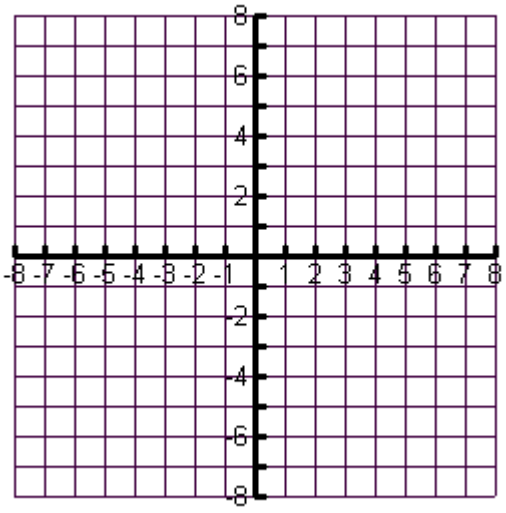


Point of intersection is :_____

Check

$y = 2x + 1$	$y = 4x - 4$

d) $y = -5$
$y = -3x+2$



Point of intersection is :_____

Check

$y = -5$	$y = -3x + 1$