Section 4.4

Matching Equations with Graphs

Can you match the equation with the graph???

A. y=4

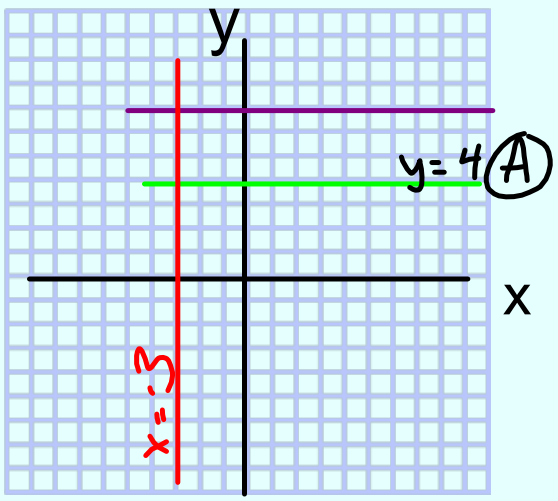
B.y + 2 =8

y=6

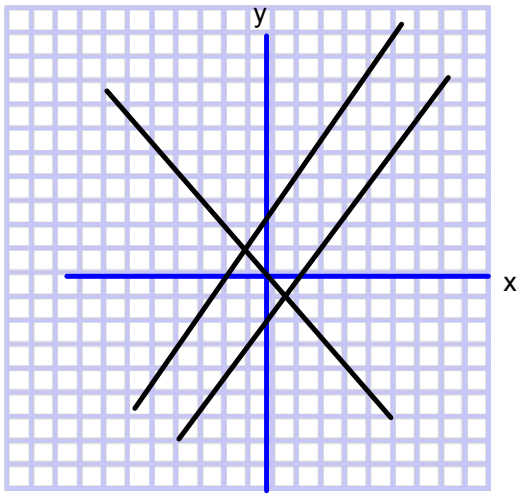
C. -12 =4x

$\frac{4x}{4} = \frac{-12}{4}$

x = -3



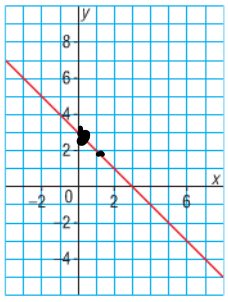
What if the line is oblique?



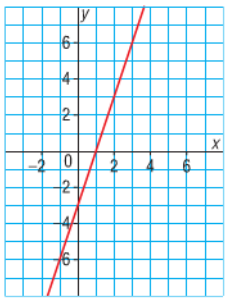
The 3 graphs below have these equations, but the graphs are not in order:

$y = 3x + 3$ $x + y = 3$ $y = 3x - 3$

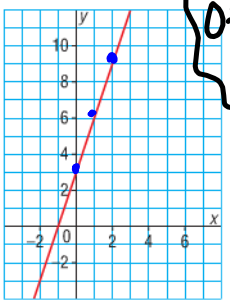
Graph A



Graph B



Graph C



$x+y=3$ Graph A

x	y
0	3
1	2
2	1

$x=0$ $0+y=3$ $y=3$

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

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

Graph B

$y=3x-3$

x	y
0	-3
1	0
2	3

$x=0$ $y=3(0)-3$ $y=-3$

$y=1$ $y=3(1)-3$ $y=0$

$x=2$ $y=3(2)-3$ $y=6-3$ $y=3$

$y=3x+3$ Graph C

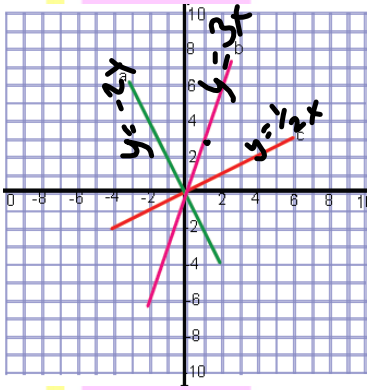
x	y
0	3
1	6
2	9

$x=0$ $y=3(0)+3$ $y=3$

$x=1$ $y=3(1)+3$ $y=3+3$ $y=6$

$x=2$ $y=3(2)+3$ $y=6+3$ $y=9$

Use tables of value to try to find which equation matches which graph. [x=0,1,2]



i. y =1/2x

x	y
0	0
1	0.5
2	1

C

ii) y=-2x

x	y
0	0
1	-2
2	-4

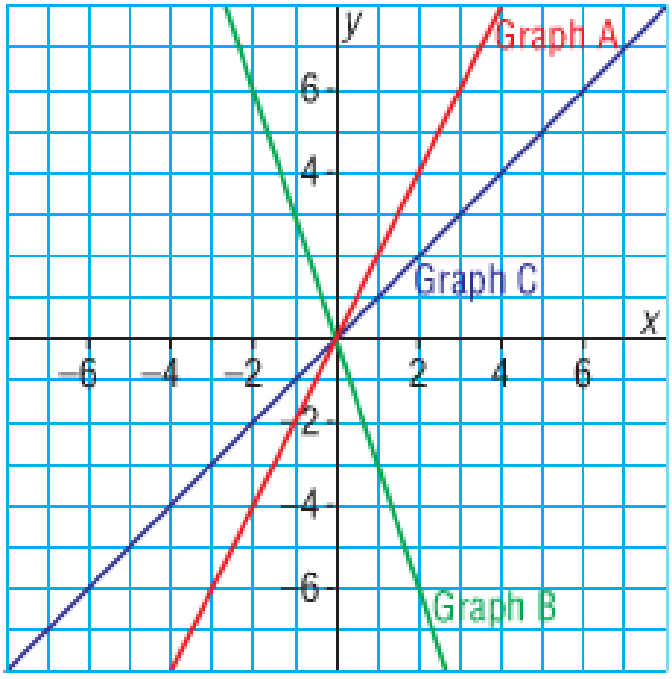
A

iii) y= 3x

x	y
0	0
1	3
2	6

B

Match each graph on the grid with its equation below.



$y = x$

$y = 2x$

$y = -3x$

$y = x$

x	y
1	
2	
3	

$y = 2x$

x	y
1	
2	
3	

$y = -3x$

x	y
1	
2	
3	