

# Section 4.4 *March 27*

## Matching Equations with Graphs

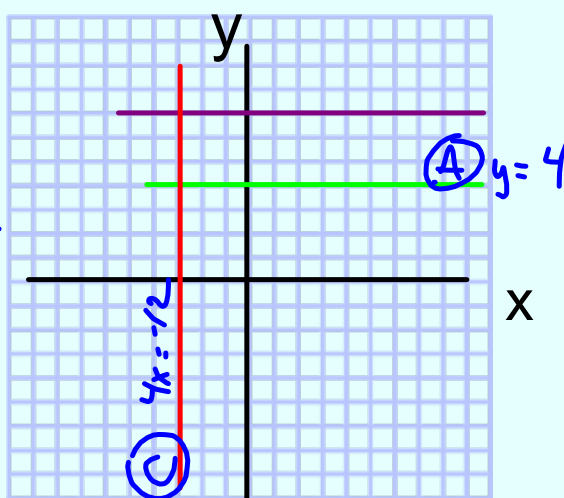


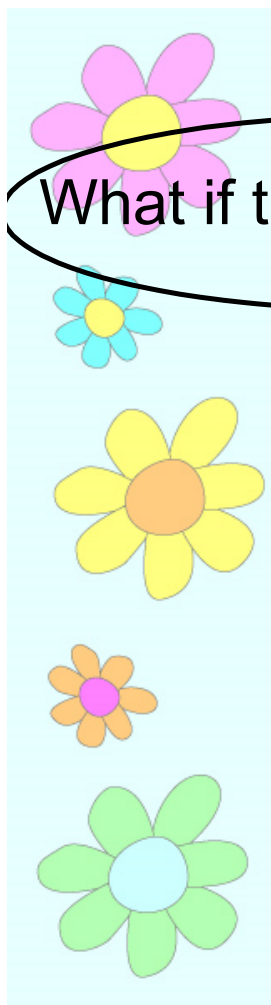
## Can you match the equation with the graph???

A.  $y=4$

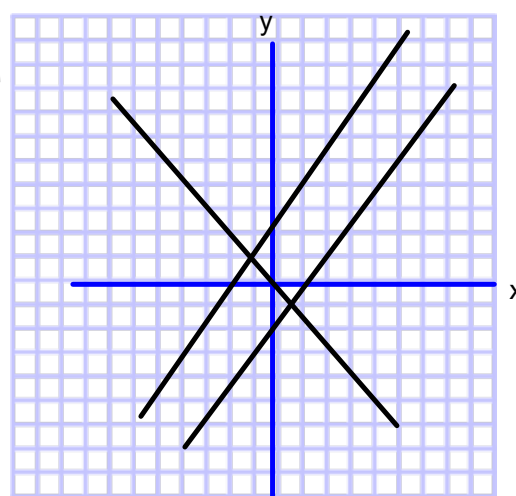
B.  $y + 2 = 8$   
 $y = 6$  No Match

C.  $\frac{-12}{4} = \frac{4x}{4}$   
 $x = -3$

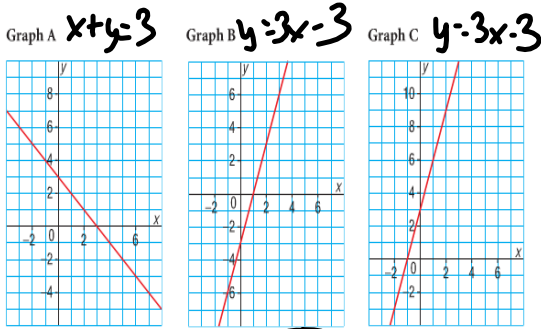




What if the line is oblique?



The 3 graphs below have these equations, but the graphs are not in order:  
 $y = 3x + 3$     $x + y = 3$     $y = 3x - 3$



**(C)**  $y = 3x + 3$

x	y
0	3
1	6
2	9

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

$k = 1$     $k = 2$

$y = 3x + 3$     $y = 3x + 3$   
 $y = 3(1) + 3$     $y = 3(2) + 3$   
 $y = 6$     $y = 9$

**(A)**  $x + y = 3$

x	y
0	3
1	2
2	1

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

$x = 1$     $x = 2$

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

**(B)**  $y = 3x - 3$

x	y
0	-3
1	0
2	3

$x = 0$     $x = 1$     $x = 2$

$y = 3x - 3$     $y = 3x - 3$     $y = 3x - 3$   
 $y = 3(0) - 3$     $y = 3(1) - 3$     $y = 3(2) - 3$   
 $y = -3$     $y = 0$     $y = 3$

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

**C**

i.  $y = 1/2x$

x	y
0	0
1	0.5
2	1

**A**

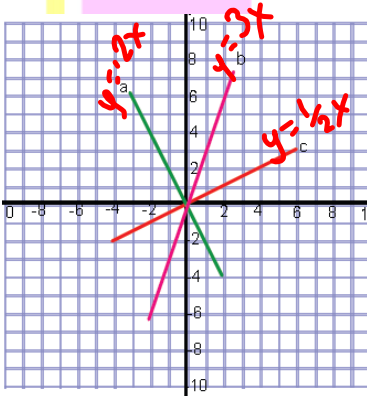
ii)  $y = -2x$

x	y
0	0
1	-2
2	-4

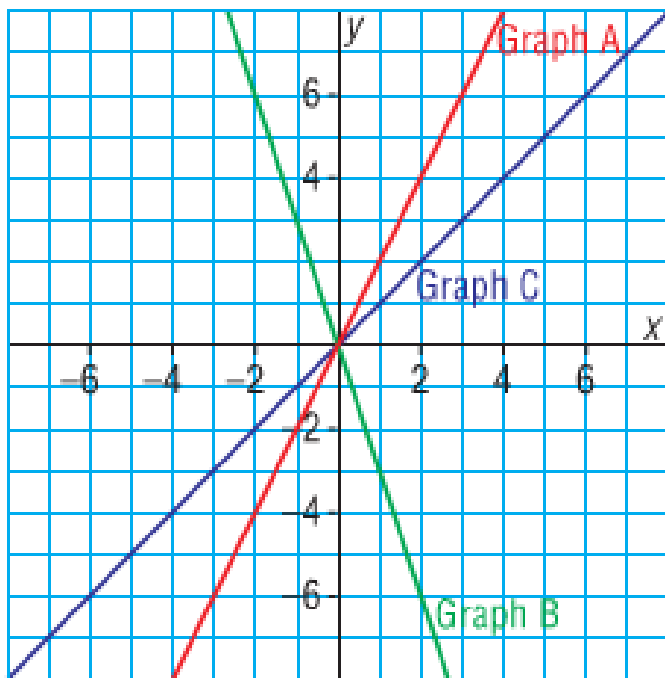
**B**

iii)  $y = 3x$

x	y
0	0
1	3
2	6



Match each graph on the grid with its equation below.



$y = x$

$y = 2x$

$y = -3x$

(C)  $y = x$

x	y
0	0
1	1
2	2

(A)  $y = 2x$

x	y
0	0
1	2
2	4

(B)  $y = -3x$

x	y
0	0
1	-3
2	-6



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# Homework/Classwork

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