

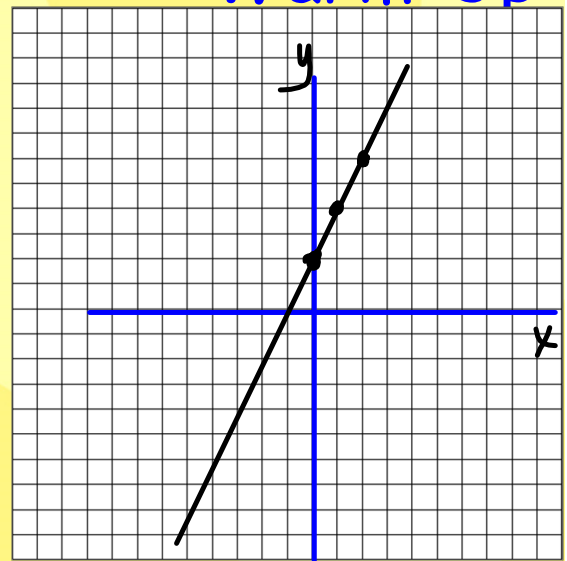
March 29, 2016

Warm-Up

Graph the following equation:

$$y = 2x + 2$$

x	y
0	2
1	4
2	6



$$\begin{aligned}
 x &= 0 \\
 y &= 2x + 2 \\
 y &= 2(0) + 2 \\
 y &= 2
 \end{aligned}$$

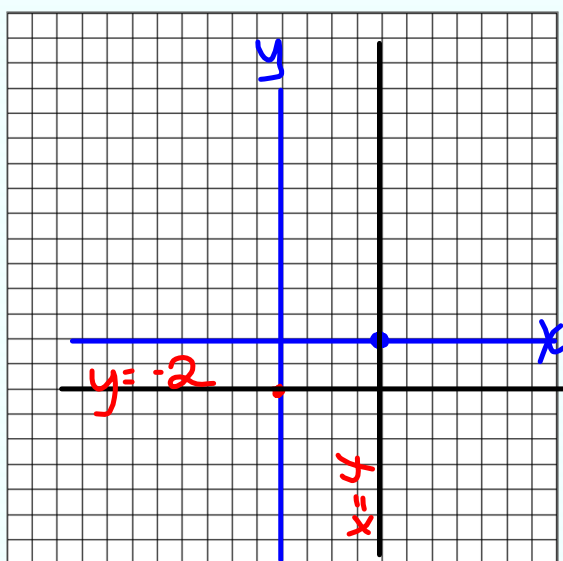
$$\begin{aligned}
 x &= 1 \\
 y &= 2x + 2 \\
 y &= 2(1) + 2 \\
 y &= 2 + 2 \\
 y &= 4
 \end{aligned}$$

$$\begin{aligned}
 x &= 2 \\
 y &= 2x + 2 \\
 y &= 2(2) + 2 \\
 y &= 4 + 2 \\
 y &= 6
 \end{aligned}$$

$x =$ a constant [vertical line] $x = 4$

$y =$ a constant [horizontal line] $y = -2$

oblique line- [neither perpendicular or parallel to an axis]-slope or slant
has both x and y
in the equation



Graph Each of the Following:

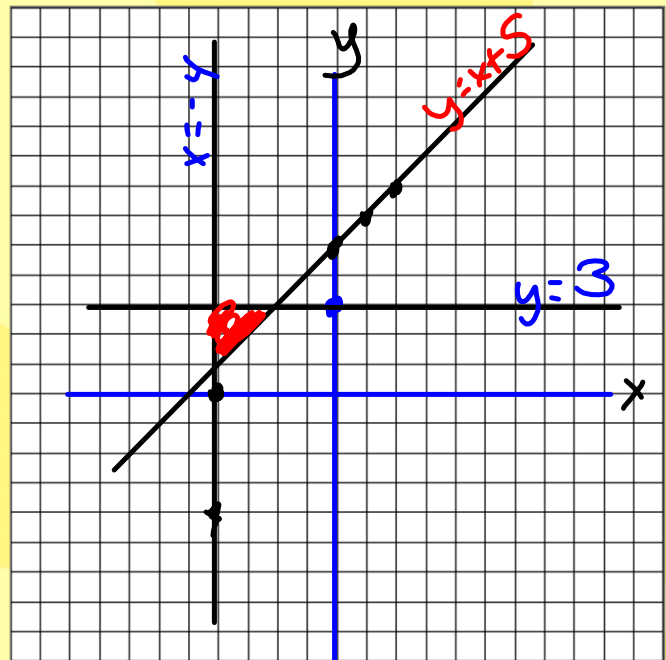
vertical
 A. $x = -4$

horizontal
 B. $y = 3$

oblique
 C. $y = x + 5$

x	y
0	5
1	6
2	7

$x = 0$
 $y = x + 5$
 $y = 5$



Identify the type of line:

[horizontal, vertical or oblique]

A. $\frac{2x}{2} = \frac{8}{2}$ vertical
 $x = 4$

B. $3x + 2y = 7$
 oblique

Table of values

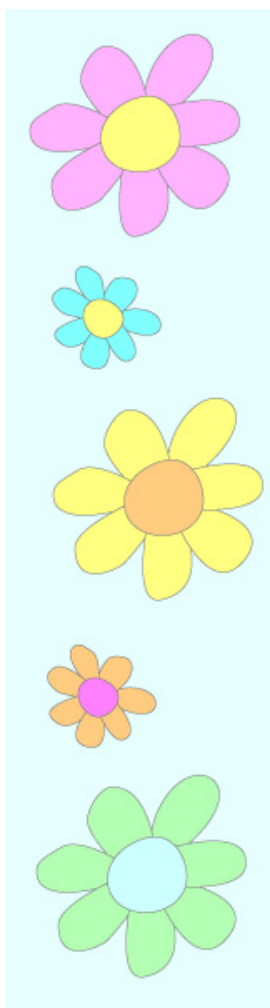
C. $4y + x = 3$

oblique

table of values

D. $\frac{4y}{4} = \frac{12}{4}$ horizontal

$y = 3$



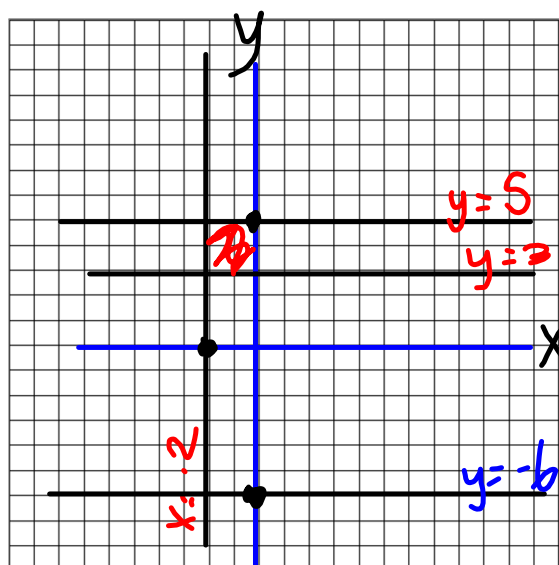
Graph

A. $y + 2 = 7$
 $y + \cancel{2} - \cancel{2} = 7 - 2$
 $y = 5$

B. $2x = -4$
 $\frac{2x}{2} = \frac{-4}{2}$
 $x = -2$

C. $y + 4 = -2$
 $y + \cancel{4} - \cancel{4} = -2 - 4$
 $y = -6$

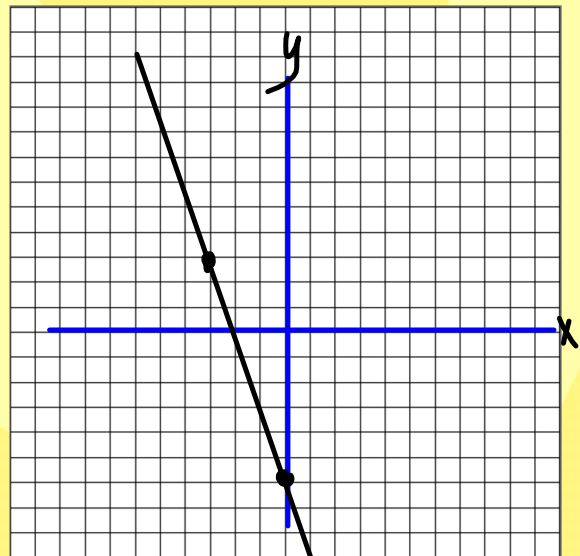
D. $y = 3$



Graph the following:

$$3x + y = -6, \quad x = -3, 0, 3$$

x	y
-3	3
0	-6
3	-15



$$\begin{aligned}
 x &= -3 \\
 3x + y &= -6 \\
 3(-3) + y &= -6 \\
 -9 + y &= -6 \\
 \cancel{-9} + y &= -6 + \cancel{9} \\
 y &= 3
 \end{aligned}$$

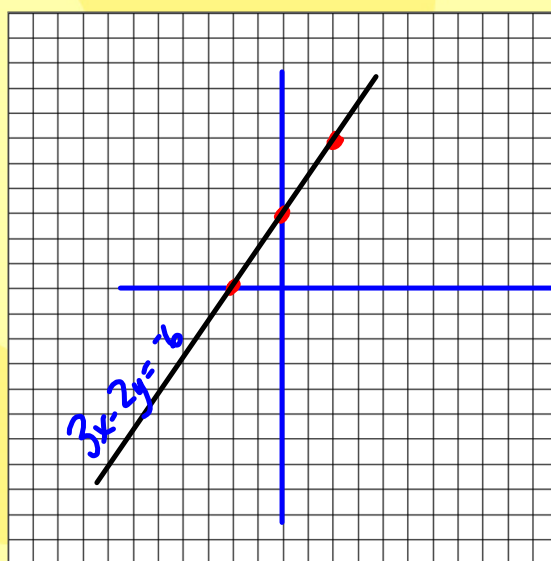
$$\begin{aligned}
 x &= 0 \\
 3x + y &= -6 \\
 3(0) + y &= -6 \\
 y &= -6
 \end{aligned}$$

$$\begin{aligned}
 x &= 3 \\
 3x + y &= -6 \\
 3(3) + y &= -6 \\
 9 + y &= -6 \\
 \cancel{9} - \cancel{9} + y &= -6 - \cancel{9} \\
 y &= -15
 \end{aligned}$$

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

$$x = -2, 0, 2$$

x	y
-2	0
0	3
2	6



$$x = -2$$

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

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

$$-6 - 2y = -6$$

$$\boxed{-6+6} - 2y = -6+6$$

$$\frac{-2y}{-2} = \frac{0}{-2}$$

$$y = 0$$

$$x = 0$$

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

$$3(0) - 2y = -6$$

$$\frac{-2y}{-2} = \frac{-6}{-2}$$

$$y = 3$$

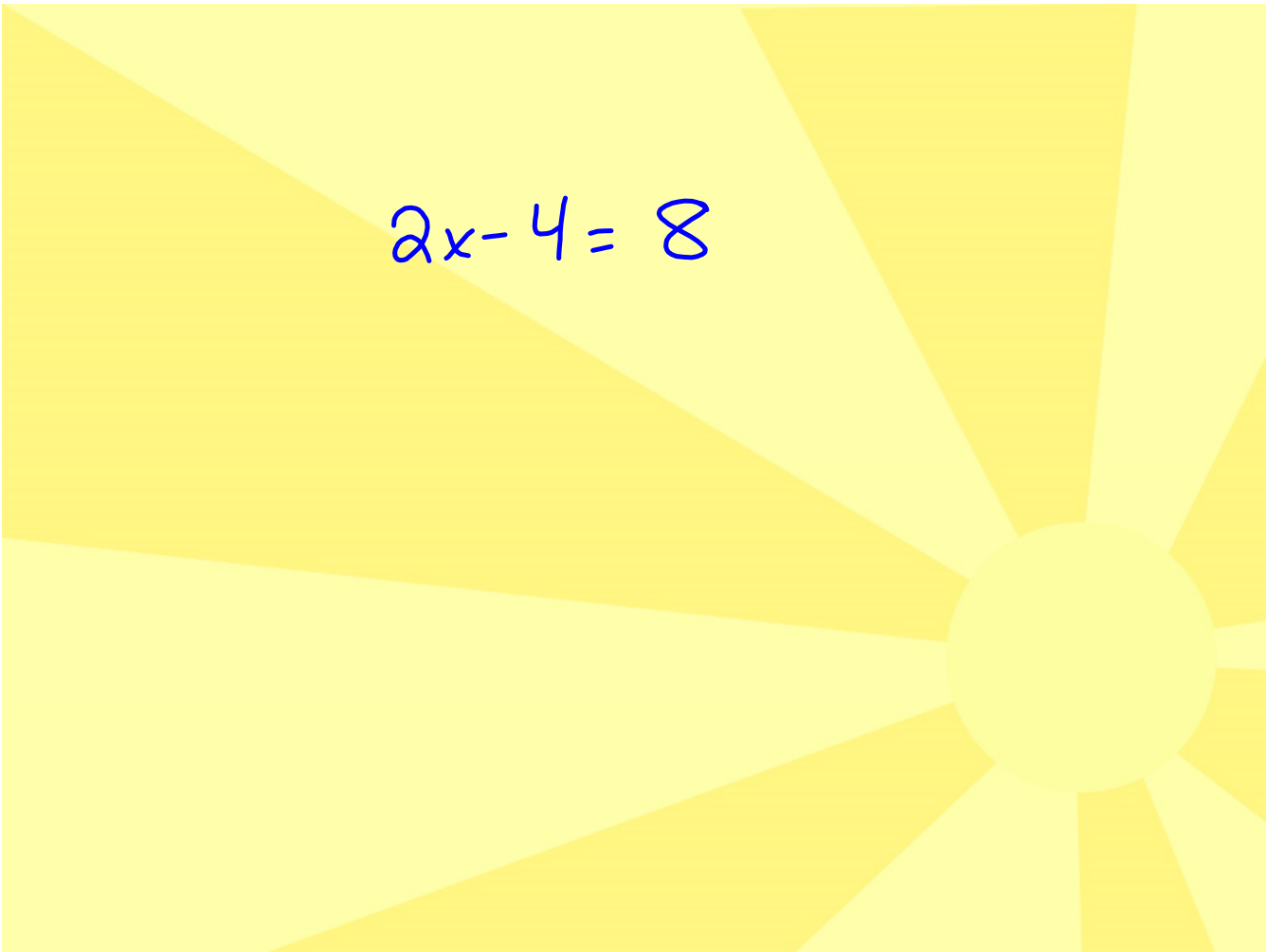
$$x = 2 \quad 3x - 2y = -6$$

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

$$\boxed{6-6} - 2y = -6-6$$

$$\frac{-2y}{-2} = \frac{-12}{-2}$$

$$y = 6$$


$$2x - 4 = 8$$

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#7, #8, #10,

#11,

15 [a, c,]

*solve first then
answer.*

table values



**Section 4.3 Quiz on
Thursday**