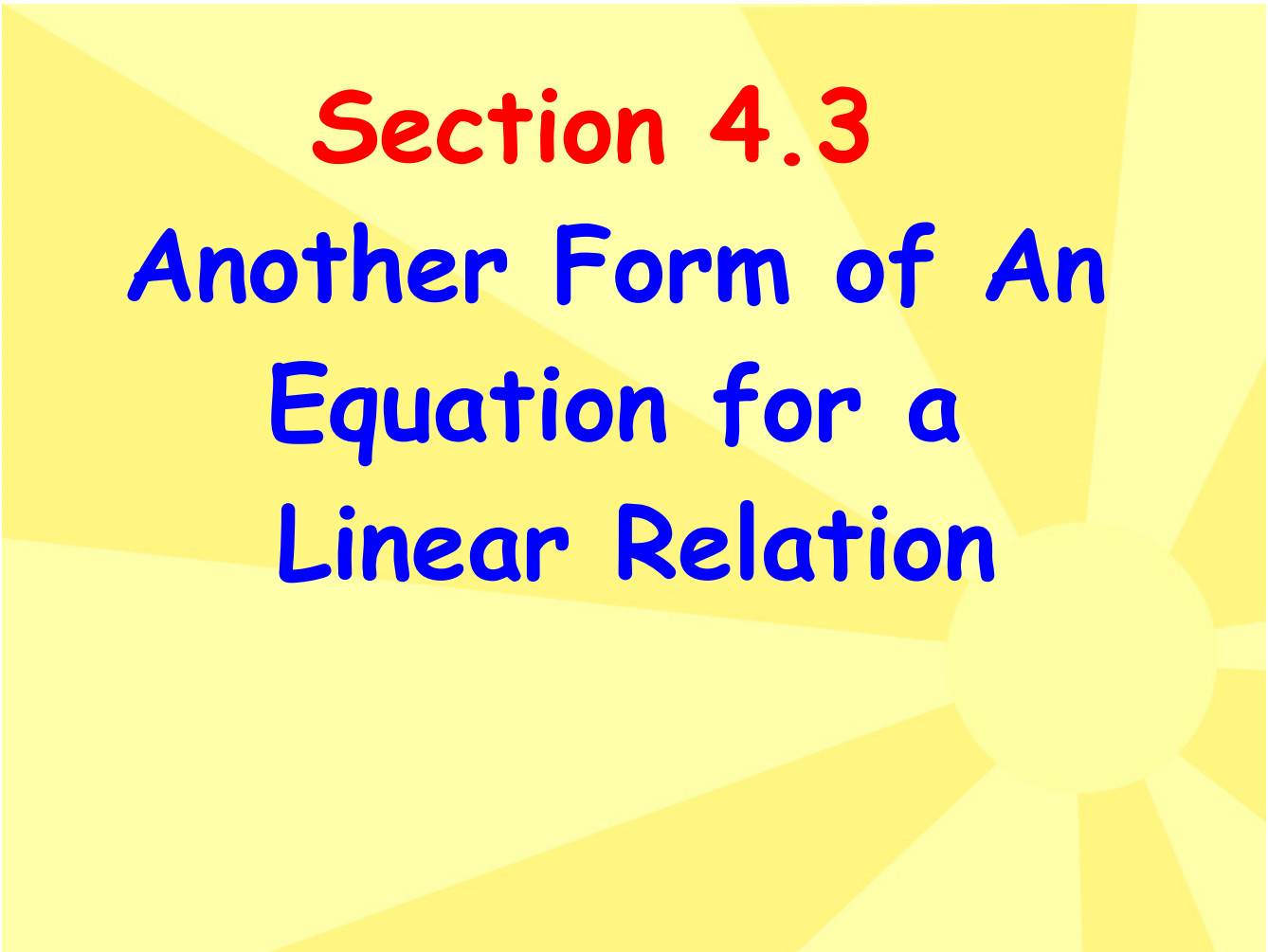


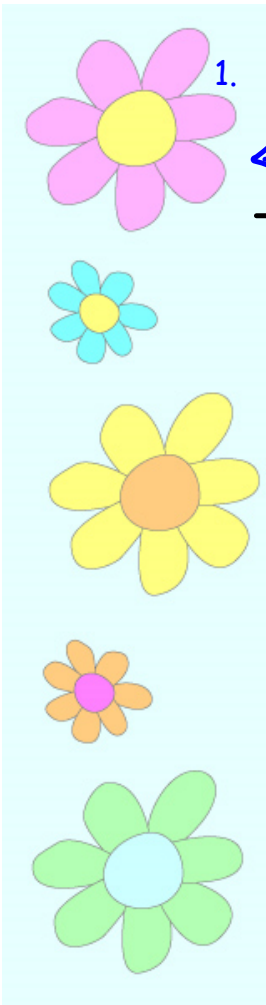
Warm-Up

Finish Assignment

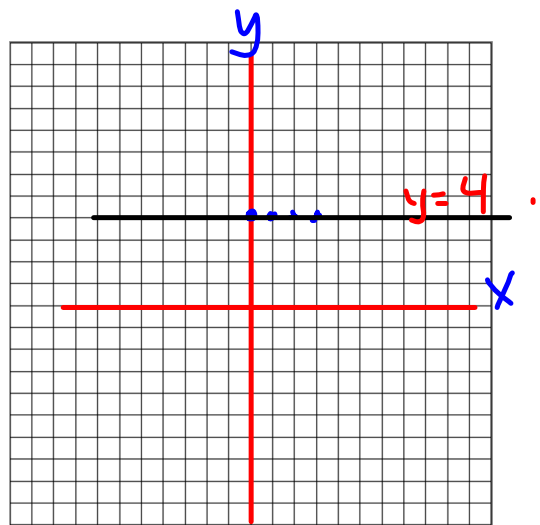
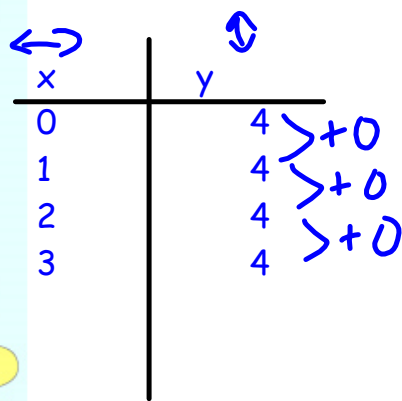




**Section 4.3**  
**Another Form of An  
Equation for a  
Linear Relation**



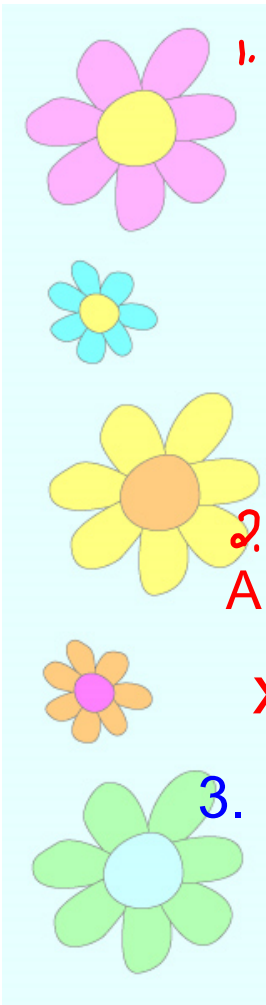
1. Graph the Following:



2. Write the equation:  $y = 0x + 4$   
 $y = 4$

3. Describe the graph

A horizontal line that intersects at 4 on the y axis.



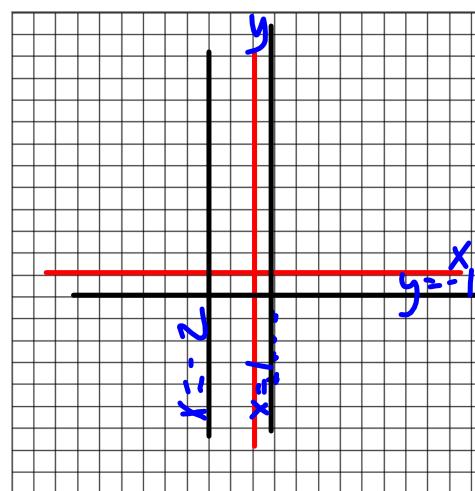
1. Graph the Following:

x	y
1	-2
1	-3
1	-4
1	-5

2. Describe the graph

A vertical line that intersects the x-axis at 1

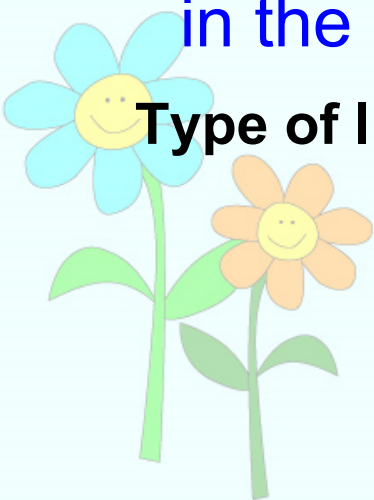
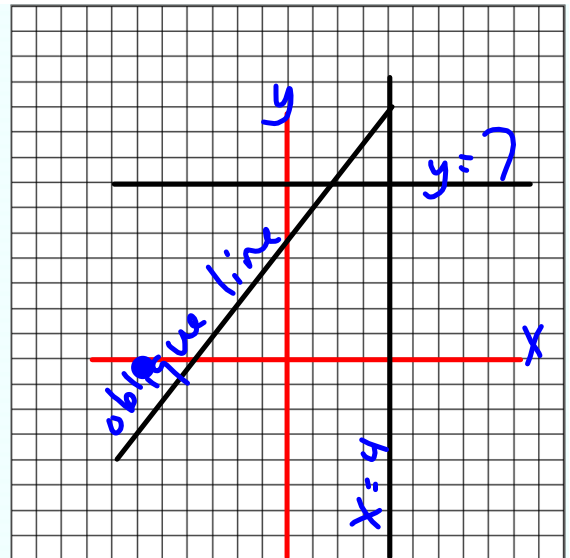
3. Draw a line where  $x = -2$        $y = -1$



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

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

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



Type of line: vertical, horizontal or oblique?

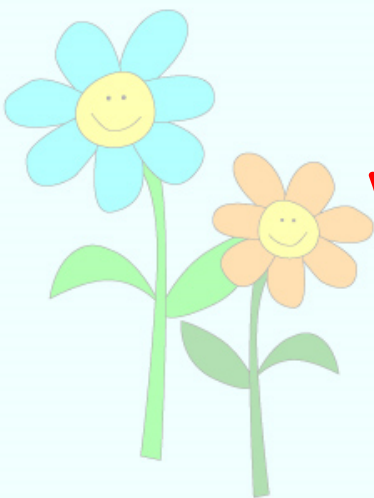
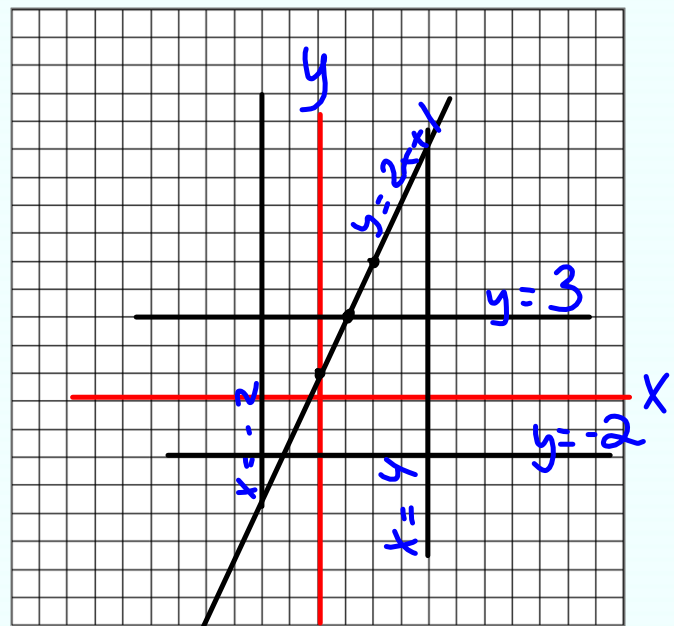
A.  $y = 2$  H  
 B.  $y = 2x - 1$  O

C.  $x = -4$  V  
 D.  $2y = 4$  H

E.  $y = 3x - 1$  O

Graph the following:

- A.  $x = -2$
- B.  $y = 3$
- C.  $y = -2$
- D.  $x = 4$



What about  $y = 2x + 1$ ???

x	y
0	1
1	3
2	5

$$\begin{aligned}
 x &= 0 \\
 y &= 2x + 1 \\
 y &= 2(0) + 1 \\
 y &= 1
 \end{aligned}$$

$$\begin{aligned}
 x &= 1 \\
 y &= 2x + 1 \\
 y &= 2(1) + 1 \\
 y &= 3
 \end{aligned}$$

$$\begin{aligned}
 x &= 2 \\
 y &= 2x + 1 \\
 y &= 2(2) + 1 \\
 y &= 5
 \end{aligned}$$