

**Graphing WS 32**

1. Use the table to write the requested values. Then write the equation of the corresponding line, using slope-intercept form.

**(a)**

$x$	20	10	0	-10	-20
$y$	-16	-12	-8	-4	0

$\Delta y =$        $\Delta x =$        $m =$        $b =$

Equation of the line:  $y =$

**(b)**

$x$	-30	-20	-10	0	10
$y$	15	11	7	3	-1

$\Delta y =$        $\Delta x =$        $m =$        $b =$

Equation of the line:  $y =$

**(c)**

$x$	9	0	-9	-18	-27
$y$	16	10	4	-2	-8

Equation of the line:  $y =$

**(d)**

$x$	4	2	0	-2	-4
$y$	2	-3	-8	-13	-18

Equation of the line:  $y =$

2. Use the given information to write the equation in slope-intercept form.

**(a)** passes through  
(7, -3) and (0, 2)

**(b)** slope:  $-\frac{2}{9}$   
 $y$ -intercept: (0, -10)

**(c)** passes through  
(-10, 4) and (4, 8)

**(d)** passes through  
(-3, -8) and (-1, 10)

**(e)** slope: 4  
 $y$ -intercept: (0, 3)

**(f)** passes through  
(9, 4) and (0, 6)

3. Use the given information to write the equation in slope-intercept form.

(a)

$x$	1	4	7	10	13
$y$	-6	-3	0	3	6

(b)

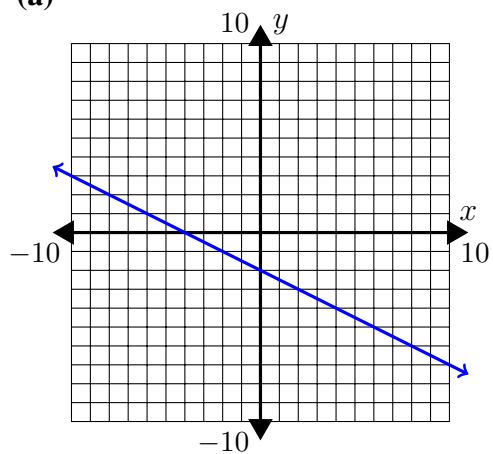
$x$	8	0	-8	-16
$y$	-1	-2	-3	-4

(c)

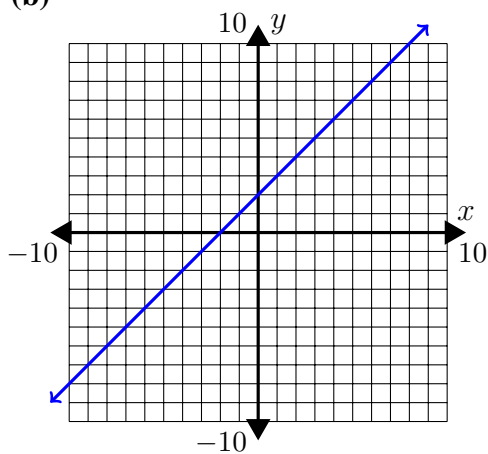
$x$	-4	3	10	17	24
$y$	10	10	10	10	10

4. Write the equation of each graph in slope-intercept form.

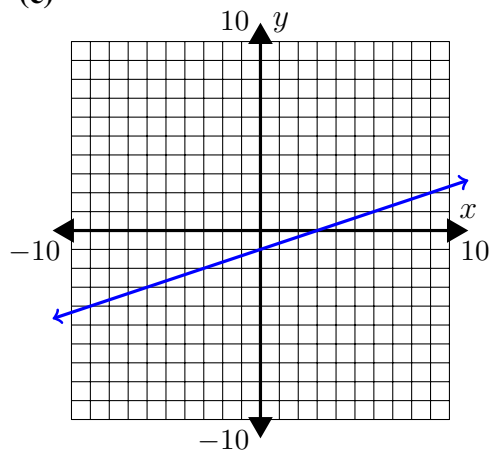
(a)



(b)



(c)



(d)

