

slope intercept form
 $y = mx + b$

Name Key Per _____

FILL IN THE BLANKS

Find the slope-intercept form for each problem below. Find your answer in the Answer Bank. Write the letter of your answer above the problem number below. Some letters may be used more than once.

already have y-intercept

1. $(0, -2) m = \frac{3}{4}$

$y = \frac{3}{4}x - 2$

already have y-intercept

3. $(0, -2) m = -\frac{3}{4}$

$y = -\frac{3}{4}x - 2$

already have y-intercept

5. $(0, -1) m = 1$

$y = x - 1$

7. $(-5, 3) m = -4$

$y = mx + b$
 $3 = -4(-5) + b$
 $3 = 20 + b$
 $-20 \quad -20$
 $-17 = b$

$y = -4x - 17$

9. $(-2, 2) m = \frac{1}{2}$

$y = mx + b$
 $2 = \frac{1}{2}(-2) + b$
 $2 = -1 + b$
 $+1 \quad +1$
 $3 = b$

$y = \frac{1}{2}x + 3$

2. $(2, 1) m = 3$

$y = mx + b$
 $1 = 3(2) + b$
 $1 = 6 + b$
 $-6 \quad -6$
 $-5 = b$

$y = 3x - 5$

4. $(4, -1) m = -\frac{3}{4}$

$y = mx + b$
 $-1 = -\frac{3}{4}(4) + b$
 $-1 = -3 + b$
 $+3 \quad +3$
 $2 = b$

$y = -\frac{3}{4}x + 2$

6. $(3, 3) m = \frac{1}{3}$

$y = mx + b$
 $3 = \frac{1}{3}(3) + b$
 $3 = 1 + b$
 $-1 \quad -1$
 $2 = b$

$y = \frac{1}{3}x + 2$

8. $(2, 1) m = \frac{3}{2}$

$y = mx + b$
 $1 = \frac{3}{2}(2) + b$
 $1 = 3 + b$
 $-3 \quad -3$
 $-2 = b$

$y = \frac{3}{2}x - 2$

10. $(-1, -1) m = -2$

$y = mx + b$
 $-1 = -2(-1) + b$
 $-1 = 2 + b$
 $-2 \quad -2$
 $-3 = b$

$y = -2x - 3$

Answer Bank	
<input checked="" type="checkbox"/> K	$y = -\frac{3}{4}x + 2$
<input checked="" type="checkbox"/> M	$y = -2x - 3$
<input type="checkbox"/> O	$y = \frac{1}{2}x + 2$
<input checked="" type="checkbox"/> H	$y = -\frac{3}{4}x - 2$
<input type="checkbox"/> D	$y = \frac{3}{2}x + 2$
<input checked="" type="checkbox"/> L	$y = \frac{3}{4}x - 2$
<input type="checkbox"/> G	$y = -4x - 7$
<input checked="" type="checkbox"/> A	$y = 3x - 5$
<input type="checkbox"/> F	$y = 3x + 5$
<input checked="" type="checkbox"/> E	$y = \frac{1}{2}x + 3$
<input type="checkbox"/> N	$y = x + 1$
<input checked="" type="checkbox"/> I	$y = -4x - 17$
<input checked="" type="checkbox"/> S	$y = \frac{3}{4}x - 2$
<input checked="" type="checkbox"/> R	$y = x - 1$
<input type="checkbox"/> Y	$y = \frac{1}{3}x - 2$
<input checked="" type="checkbox"/> J	$y = \frac{1}{3}x + 2$

4
10
3
8
2
9
7
1
5
6

The only A N I M A L with four

K N E E S is the E L E P H A N T