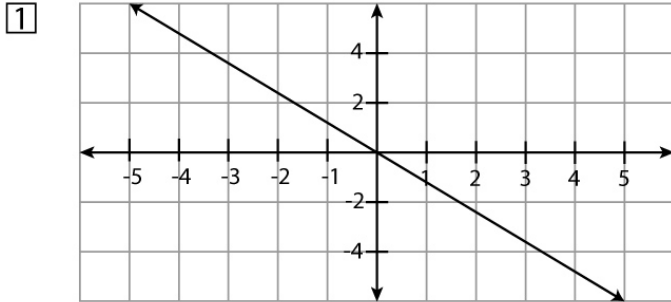


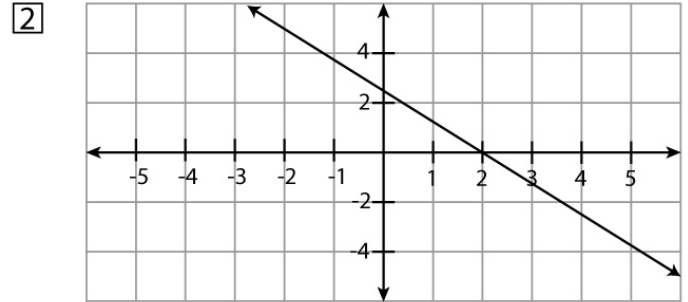
Name: \_\_\_\_\_

# Writing Equation of Lines Worksheet

Write the slope-intercept form of the equation of each line



Equation: \_\_\_\_\_



Equation: \_\_\_\_\_

Write the point-slope form of the equation of the line through the given point and slope

3  $(-3, -2)$ , slope =  $-\frac{2}{3}$

\_\_\_\_\_

4  $(3, 2)$ , slope =  $\frac{1}{3}$

\_\_\_\_\_

Write the slope-intercept form of the equation of each line given the slope and y-intercept

5 Slope =  $-5$ , y-intercept =  $1$

\_\_\_\_\_

6 Slope =  $0$ , y-intercept =  $2$

\_\_\_\_\_

Write the slope-intercept form of the equation of each line

7  $y + 3 = \frac{5}{3}(x + 3)$

\_\_\_\_\_

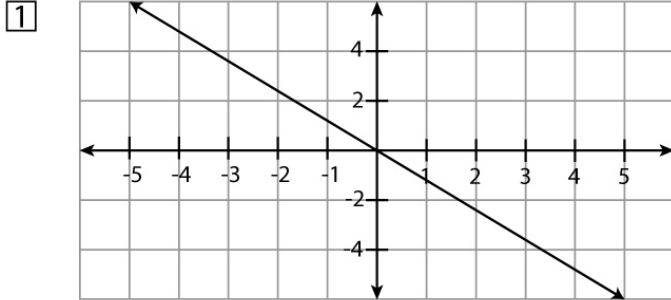
8  $y - 5 = -10(x - 4)$

\_\_\_\_\_

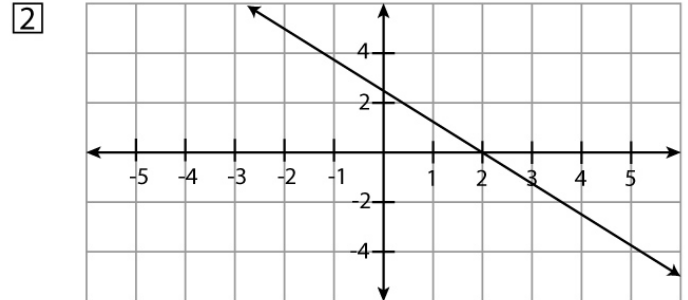
Name: .....

## Writing Equation of Lines Worksheet

### Answers



Equation:  $2x + 3y = 0$



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

3  $(-3, -2)$ , slope =  $-\frac{2}{3}$

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

4  $(3, 2)$ , slope =  $\frac{1}{3}$

$y - 2 = \frac{1}{3}(x - 3)$

5 Slope =  $-5$ , y-intercept =  $1$

$y = -5x + 1$

6 Slope =  $0$ , y-intercept =  $2$

$y = 2$

7  $y + 3 = \frac{5}{3}(x + 3)$

$y = \frac{5}{3}x + 2$

8  $y - 5 = -10(x - 4)$

$y = -10x + 45$