

## Writing Equations of Lines

Name:

Date:

### Vocabulary Review:

In your own words, define each of the following vocabulary terms.

- y-intercept
  
  
  
  
  
- Slope-Intercept Form
  
  
  
  
  
- Point-Slope Form
  
  
  
  
  
- Equation
  
  
  
  
  
- Linear Function
  
  
  
  
  
- Slope

**Apply New Learning:**

For #1–3, write an equation of a line in slope-intercept form with the given slope and y-intercept.

1.  $m = -1, b = 0$

2. slope = 0, y-intercept = 6

3.  $m = -2.5, b = -2$

For #4–6, write an equation of a line in slope-intercept form that passes through each pair of points.

4. (3, 1) and (2, 4)

5. (-1, -3) and (-2, 3)

6. (2, 5) and slope -2

7. Rewrite each slope-intercept form equation in point-slope form in the table below.

|   | Slope-Intercept Form | Point-Slope Form |
|---|----------------------|------------------|
| 1 |                      |                  |
| 2 |                      |                  |
| 3 |                      |                  |
| 4 |                      |                  |
| 5 |                      |                  |
| 6 |                      |                  |