Algebra IA
Worksheet 5-4

Name: _____

Per.: ____ Date: _____

* ALL WORK ON LOOSELEAF *

OBJECTIVE 10-5A Write a linear equation in slope-intercept form given the slope and the coordinates of a point on the line.

1. Write an equation of the line whose slope is 3 and passing through (2, 4). Use slope-intercept form.

2. Write an equation of the line whose slope is -2 and passing through (1, -3). Use slope-intercept form.

3. Write an equation of the line whose slope is $\frac{3}{4}$ and passing through (-1, 3). Use slope-intercept form.

4. Write an equation of the line whose slope is $-\frac{4}{5}$ and passing through (0, 5). Use slope-intercept form.

5. Write an equation of the line whose slope is $-\frac{5}{2}$ and passing through (0, 0). Use slope-intercept form.

6. Write an equation of the line whose slope is $\frac{3}{2}$ and passing through (-3, -2). Use slope-intercept form.

OBJECTIVE 10-5B Write a linear equation in slope-intercept form given the coordinates of two points of the line.

1. Write an equation of the line which passes through (7, 3) and (5, 1). Use slope-intercept form.

2. Write an equation of the line which passes through (2, 9) and (4, 8). Use slope-intercept form.

3. Write an equation of the line which passes through (-2, 1) and (3, 2). Use slope-intercept form.

4. Write an equation of the line which passes through (-1, 0) and (1, 5). Use slope-intercept form.

5. Write an equation of the line which passes through (3, -2) and (3, 7). Use slope-intercept form.

6. Write an equation of the line which passes through (-2, -5) and (4, -5). Use slope-intercept form.

7. Write an equation of the line which passes through (4, -9) and (0, 0). Use slope-intercept form.

8. Write an equation of the line which passes through (-3, 0) and (0, -2). Use slope-intercept form.