

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

## Writing Equations in Point – Slope Form

1) Write the equation in point – slope form. Identify the slope and the y-intercept of the line.

1)  $2x + y = 5$

2)  $y - 4x = 0$

3)  $5x - y = 1$

4)  $3x - y = -6$

5)  $x + 4y = 0$

6)  $\frac{5}{4}x - \frac{1}{2}y = 1$

2) Write an equation for the line in point – slope form.

1) Slope  $\frac{2}{3}$ ; passes through  $(-6, 4)$

2) Passes through  $(-8, 2)$  and  $(4, -7)$

3) Find the equations of the following straight lines:

(1) With gradient 2 and passing through  $(1, 3)$

(2) With gradient -1 and passing through  $(2, -1)$

(3) With gradient  $\frac{2}{3}$  and passing through  $(2, 4)$

(4) Passing through  $(2, 5)$  and  $(8, 10)$

(5) Passing through  $(-4, -2)$  and  $(-1, 5)$ .