

Name: _____

Writing Equations in Slope – Intercept Form

1) Complete the following table

<i>Equation of Line</i>	<i>Gradient</i>	<i>Intercept</i>
$y = 4x + 2$		
$y = 8x - 2$		
	4	3
	2	9

2) Write an equation in slope – intercept form for the line that satisfies the given conditions.

- 1) Slope $-\frac{4}{7}$; y-intercept 3
- 2) Slope $\frac{4}{5}$; passes through $(5, -3)$
- 3) Slope $\frac{1}{5}$; passes through $(-4, -2)$
- 4) Passes through $(-10, -2)$ and $(5, 7)$
- 5) Passes through $(7, 0)$ and $(3, -5)$
- 6) x-intercept 7; y-intercept -5
- 7) Slope $\frac{1}{5}$; x-intercept -6

3) Write an equation for the line in slope – intercept form.

- 1) Slope $-\frac{5}{2}$; passes through $(4, -3)$
- 2) Passes through $(4, 7)$ and $(-1, -3)$