

Name:

Date:

Period:

Write an equation in BOTH, SLOPE - INTERCEPT and POINT – SLOPE formats of the line that has the given slope, m , and that passes through the given point. Show all your work on the back or a separate sheet of paper.

<u>Slope-Intercept</u>		<u>Point – Slope</u>	
$y = mx + b$		$(y - y_1) = m(x - x_1)$	
<u>SLOPE - INTERCEPT</u>	<u>POINT – SLOPE</u>	<u>SLOPE - INTERCEPT</u>	<u>POINT – SLOPE</u>
1. $m = 2, (1, 4)$		5. $m = \frac{1}{2}, (4, 2)$	
2. $m = 2, (-3, 4)$		6. $m = -\frac{3}{4}, (0, 0)$	
3. $m = -3, (-2, -1)$		7. $m = -\frac{5}{3}, (-3, 0)$	
4. $m = -4, (2, 7)$		8. $m = -\frac{3}{4}, (-8, 2)$	

Write an equation in BOTH, SLOPE - INTERCEPT and POINT – SLOPE formats of the line that has the given slope, m , and that passes through the given points. Use the **first point** for Point-Slope. Show all your work on the back or a separate sheet of paper.

<u>SLOPE - INTERCEPT</u>	<u>POINT – SLOPE</u>	<u>SLOPE - INTERCEPT</u>	<u>POINT – SLOPE</u>
9. $(3, 8) \& (1, 4)$		13. $(0, -1) \& (6, 8)$	
10. $(3, 1) \& (9, 7)$		14. $(-2, -5) \& (-1, -2)$	
11. $(1, 2) \& (10, 14)$		15. $(0, 0) \& (-3, 5)$	
12. $(4, 7) \& (5, 1)$		16. $(9, -2) \& (-3, 2)$	