## Algebra I Worksheet #1 Unit 7 Selected Solutions

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

1. The line with slope 2 and y-intercept 3. Oblique line ; m = 2 ; b = 3 ; y = mx + b	$\mathbf{y} = 2\mathbf{x} + 3$
3. The horizontal line through the point (2, 3). horizontal line ; y = k ; y = 3 at the given point.	y = 3
5. The vertical line through the point (2, 3). vertical line ; x = k ; x = 2 at the given point.	x = 2
7. The line with slope -2 through the point (0, -5). Oblique line ; m = -2 ; b = -5 ; y = mx + b	$\mathbf{y} = -2\mathbf{x} - 5$
9. The line with <i>no slope</i> through the point (3, 1). vertical line ; x = k ; x = 3 at the given point.	x = 3
11. The line with slope 0 through the point (3, 1). horizontal line ; y = k ; y = 1 at the given point.	y = 1
13. The line through (-2, 1) and (0, 7). oblique line ; $m = \frac{7-1}{0-2} = 3$ ; $b = 7$	$\mathbf{y} = 3\mathbf{x} + 7$
<ul><li>15. The line through (5, 4) and (-1, 4).</li><li>horizontal line ; y = k ; y = 4 at the given points.</li></ul>	y = 4
19. The line through (5, 1) and (5, -2). vertical line ; x = k ; x = 5 at the given points.	<u>x</u> = 5