

With a partner, use the given information to complete the table.

Intercepts	Slope	Slope-Intercept Form	Point-Slope Form	Standard Form	Graph
$(-8, 0)$ $(0, 4)$	$(-8, 0)$ $(0, 4)$ $\frac{4-0}{0-(-8)} = \frac{4}{8} = \frac{1}{2}$	$y = \frac{1}{2}x + b$ $4 = \frac{1}{2}(0) + b$ $4 = b$ $y = \frac{1}{2}x + 4$	$y - 4 = \frac{1}{2}(x - 0)$ OR $y - 0 = \frac{1}{2}(x + 8)$	$-\frac{1}{2}x + y = 4$ OR $\frac{1}{2}x - y = -4$	
$(0, -1)$ $(-1, 0)$	-1	$y = -1x + b$ $-1 = -1(0) + b$ $b = -1$ $y = -1x - 1$	$y + 1 = -1(x - 0)$	$1x + y = -1$	
$(0, 4)$ $(-1, 0)$	4	$y = 4x + 4$	$y - 4 = 4(x - 0)$	$-4x + y = 4$ OR $4x - y = -4$	

Intercepts	Slope	Slope-Intercept Form	Point-Slope Form	Standard Form	Graph	
$(0, -4.5)$ $(3, 0)$	$\frac{3}{2}$	$y = \frac{3}{2}x + 4.5$	$2x + 3y = 0$ $3y = -2x$ $y = -\frac{2}{3}x$	$x + 3 = \frac{3}{2}(x + 5)$ $2 + 3 = \frac{3}{2}(x + 5)$ $5 = \frac{3}{2}(x + 5)$	$-\frac{3}{2}x + y = +4.5$ or $1.5x - y = -4.5$	
$(0, 0)$	$-\frac{2}{3}$	$y - 0 = -\frac{2}{3}(x - 0)$	$2x + 3y = 0$ $3y = -2x$ $y = -\frac{2}{3}x$	$2x + 3y = 0$ $x = 0$ $y = 0$		
$(-2, 0)$ $(0, -10)$	-5	$y - 0 = -5(x + 2)$	$y = -5x + b$ $0 = -5(-2) + b$ $0 = 10 + b$ $b = -10$	$-5x + y = -10$		

$y = -5x - 10$