Writing Equations of Lines Given Two Points

Find the slope and the y-intercept, and then write the equation of the line.

$m = \dfrac{y_2 - y_1}{x_2 - x_1}$	Solve for b y = mx + b	Write the equation y = mx + b
1. (1, 5) and (2, 7) m =		y = mx + b
2. (0, 1) and (3, -8) m =		y = mx + b
3. (2, -3) and (4, -2) m =		y = mx + b
4. (2, 5) and (4, 2) m =		y = mx + b
5. (-3, -5) and (-1, 3) m =		y = mx + b

	$m = \dfrac{y_2 - y_1}{x_2 - x_1}$	Solve for b y = mx + b	Write the equation y = mx + b
6. (3, -1) and (-6, -4) m =			y = mx + b
7. (4, 1) and (-4, 7) m =			y = mx + b
8. (-1, 2) and (3, 4) m =			y = mx + b
9. (-1, -4) and (2, 0) m =			y = mx + b
10. (3, -1) and (-3, 5) m =			y = mx + b
	$m = \dfrac{y_2 - y_1}{x_2 - x_1}$	Solve for b y = mx + b	Write the equation y = mx + b