Fill in the Blanks — Finding the Equation of a Line Through Two Points

(x_1, y_1)	(x_2, y_2)	Find m using $\frac{y_2-y_1}{x_2-x_1}$	Gradient m	Find c using $y = mx + c$	Equation of Line
$(1, 3)$	$(2, 5)$	$\frac{5-3}{2-1} = \frac{2}{1}$	2	$3 = 2 \times 1 + c$ $c = 1$	$y = 2x + 1$
$(2, 0)$	$(5, 9)$	$\frac{9-0}{5-2} = \frac{9}{3}$	3	$0 = 3 \times 2 + c$ $c = -6$	$y = 3x - 6$
$(4, 1)$	$(5, 6)$	$\frac{6-1}{5-4} = \frac{5}{1}$	5	$1 = 5 \times 4 + c$ $c = -19$	$y = 5x - 19$
$(7, 11)$	$(8, 10)$	$\frac{10-11}{8-7} = \frac{-1}{1}$	-1	$11 = -1 \times 7 + c$ $c = 18$	$y = -x + 18$
$(2, -3)$	$(5, 3)$	$\frac{3-(-3)}{5-2} = \frac{6}{3}$	2	$-3 = 2 \times 2 + c$ $c = -7$	$y = 2x - 7$
$(3, -2)$	$(1, 8)$	$\frac{8-(-2)}{1-3} = \frac{10}{-2}$	-5	$-2 = -5 \times 3 + c$ $c = 13$	$y = -5x + 13$
$(-6, -1)$	$(-2, 1)$	$\frac{1-(-1)}{-2-(-6)} = \frac{2}{4}$	$\frac{1}{2}$	$-1 = \frac{1}{2} \times -6 + c$ $c = 2$	$y = \frac{1}{2}x + 2$
$(9, 7)$	$(3, 9)$	$\frac{9-7}{3-9} = \frac{2}{-6}$	$-\frac{1}{3}$	$7 = -\frac{1}{3} \times 9 + c$ $c = 10$	$y = -\frac{1}{3}x + 10$
$\left(\frac{1}{2}, -3\right)$	$\left(-\frac{1}{2}, -\frac{5}{2}\right)$	$\frac{-2.5-(-3)}{-0.5-0.5} = \frac{0.5}{-1}$	$-\frac{1}{2}$	$-3 = -0.5 \times 0.5 + c$ $c = -\frac{11}{4}$	$y = -\frac{1}{2}x - \frac{11}{4}$