Write the equation of the line that has a slope of $-1/3$ and passes through $(4, -7)$.

$m = -1/3$

$x_1 = 4$

$y_1 = -7$

$y - y_1 = m(x - x_1)$

$y - -7 = \frac{-1}{3}(x - 4)$

$y + 7 = \frac{-1}{3}(x - 4)$

Write the equation of the line that has a slope of 5 and passes through $(-1, 5)$.

$m = 5$

$x_1 = -1$

$y_1 = 5$

$y - y_1 = m(x - x_1)$

$y - 5 = 5(x - -1)$

$y - 5 = 5(x + 1)$

Write the equation of the line that passes through (1,4) and (-2,3).

x	y
1	4
-2	3

-3, -1

$m = \frac{\Delta y}{\Delta x} = \frac{-1}{-3} = \frac{1}{3}$

$m = 1/3$

$x_1 = 1$

$y_1 = 4$

$y - y_1 = m(x - x_1)$

$y - 4 = 1/3(x - 1)$

Write the equation of the line that passes through (-2,0) and (4,1).

x	y
-2	0
4	1

+6, +1

$\frac{\Delta y}{\Delta x} = \frac{1}{6}$

$m = 1/6$

$x_1 = -2$

$y_1 = 0$

$y - y_1 = m(x - x_1)$

$y - 0 = 1/6(x - -2)$

$y = 1/6(x + 2)$