Equations of Straight Lines

$$y = mx + c$$

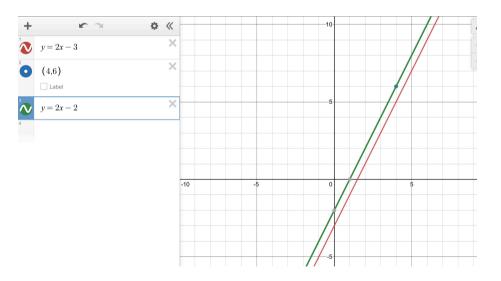
 $\int \int f$
gradient y-intercept

Find eqn of line parallel to y = 2x-3 passing through (4,6)

Parallel lines have same gradient so line is of the form y=2x+c

through(a, 6) Sub in eqn 6 = 2(4) + c 6 = 8 + c 6 - 8 = c-2 = c





Find eqn of line parallel to y = 3x - (pessing through (4,8) Line of form y = 3x + c

$$(505(4,8))$$
 $8 = 3(4) + c$
 $8 = 12 + c$
 $8 - 12 = c$
 $-4 = c$ Line is $y = 3x - 4$