> **YOU & MATHS** **Is it a line?** Solve for y in the following equation and let $y = f(x)$. Draw a graph of the function f.
>
> $$\frac{y-3}{y-2} = \frac{x+1}{x}$$

If you suppose $y \neq 2$ and $x \neq 0$ you can transform the equation into $yx - 3x = xy + y - 2x - 2$ which simplified is $-3x + 2x = y - 2$. Now you can solve for y and get $y = -x + 2$.

Therefore the graph is a line with the point $(0, 2)$ missing.