Further Curve Sketching

When sketching curves, remember to find where it crosses the x-axis and the y-axis. Think about what happens to y when x is *very* positive and *very* negative. You cannot divide by zero, so any values of x where this happens will result in a vertical asymptote.

Questions

1. Sketch the following curves:

   (a) $y = \frac{1}{x-4}$.

   (b) $y = \frac{2}{3-x}$.

   (c) $y = \frac{1}{x+1} + 2$.

   (d) $y = \frac{2}{x+3} - 3$.

   (e) $y = \frac{x+1}{x-4}$.

   (f) $y = \frac{2-x}{x-1} + 1$.

   (g) $y = \frac{1}{(x+2)(x-3)}$.

   (h) $y = \frac{1}{(x-4)(x+1)} - 5$.