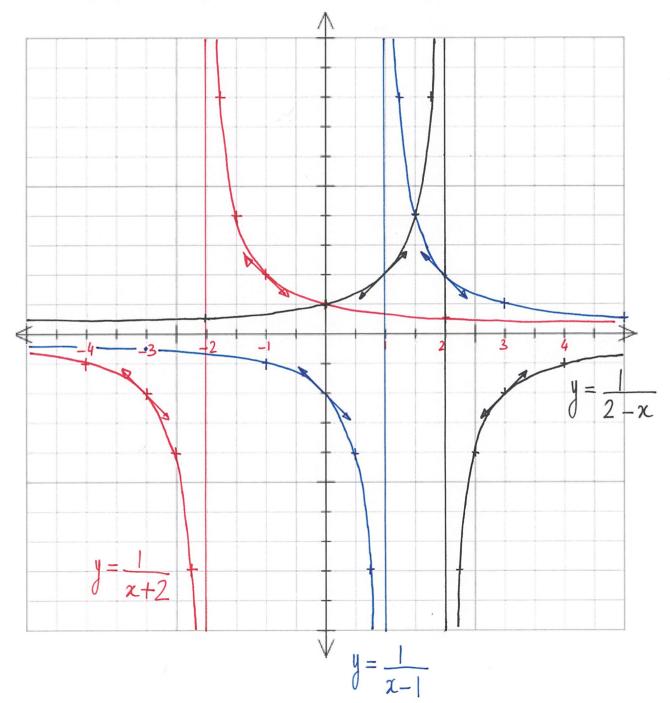
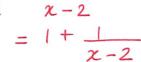
## GRAPHING RATIONAL ALGEBRAIC FRACTIONS

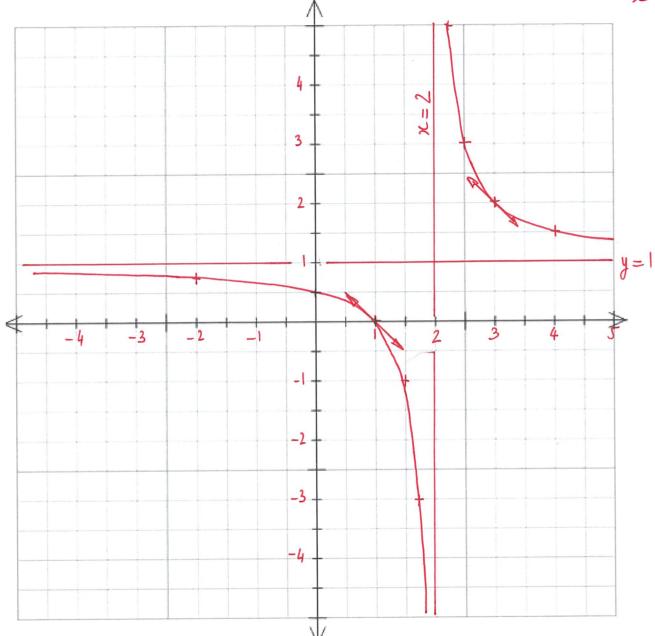
- 1 The asymptotes of  $y = \frac{1}{x+2}$  are: A y = 0 and x = -2 B y = 0 and x = 2 C x = 0 and y = -2 D x = 0 and y = 2

- 2 Sketch the graph of each function. For what values of x is the curve concave down? State the range of each function.
  - (a)  $y = \frac{1}{x+2}$  (b)  $y = \frac{1}{x-1}$  (c)  $y = \frac{1}{2-x}$



## **GRAPHING RATIONAL ALGEBRAIC FRACTIONS**





- 5 For the function given in the sketch, state whether each statement below is correct or incorrect.
  - (a) The horizontal asymptote is y = 2.

  - (b) The curve is continuous. PALSE
  - (c) The curve is concave up for x > 0. TRUE (d) The equation of the function is  $y = 2 + \frac{1}{x}$ . TRUE

