• Graph
$$f(x) = \frac{x^2 - x - 6}{x^2 - 10x + 25} = \frac{(x - 3)(x + 2)}{(x - 5)^2}$$

No holes.

$$f(s:1) \text{ is } \frac{(+)(+)}{+} \text{ so}$$

$$f(4, a) \text{ is } \frac{(+)(+)}{+} \text{ so}$$

$$\frac{H.A.}{y} = \frac{1}{1}$$
 $y = 1$

$$\frac{\chi^2 - \chi - 6}{\chi^2 - 10 + 25} = 1$$

$$y = \frac{0 - 0 - 6}{0 - 0 + 2} = \frac{-6}{28}$$

$$\frac{\chi^{2} - \chi - 6}{\chi^{2} - 10\chi + 25} = \begin{cases} \chi^{2} - 10\chi + 25 \\ -\chi - 6 = \chi^{2} - 10\chi + 25 \end{cases}$$

$$-\chi - 6 = -10\chi + 25$$

$$-\chi$$

