

• Graph  $f(x) = \frac{x^2 - 8x + 15}{x^2 - 11x + 24} = \frac{(x-3)(x-5)}{(x-3)(x-8)}$

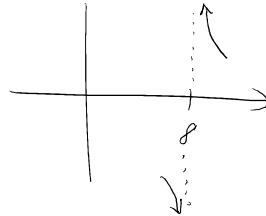
Hole @  $x=3$   $r(x) = \frac{x-5}{x-8}$   $r(3) = \frac{3-5}{3-8} = \frac{-2}{-5}$  hole at  $(3, \frac{2}{5})$

Zero @  $x=5$

V.A @  $x=8$

$f(8.1)$  is  $\frac{(+)(+)}{(+)(+)}$

$f(7.9)$  is  $\frac{(+)(+)}{(+)(-)}$



y-int =  $\frac{15}{24} = \frac{5}{8}$

H.A  $y=1$

$\frac{x^2 - 8x + 15}{x^2 - 11x + 24} = 1$

$x^2 - 8x + 15 = x^2 - 11x + 24$

$-8x + 15 = -11x + 24$

$3x = 9$

$x = 3 \leftarrow$  but 3 not in domain.

