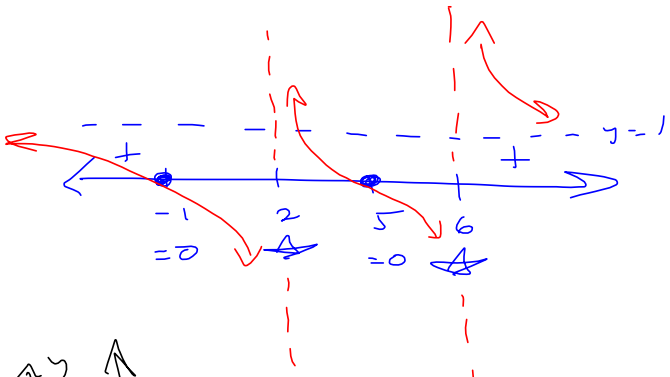
$$R(x) = \frac{(x-5)(x+1)}{(x-2)(x-6)} = \frac{x^2-4x-5}{x^2-8x+12}$$

$D = \mathbb{R} \setminus \{2, 6\}$

V.A.: $x=2,\ x=6$

H.A.: $\frac{x^2+\dots}{x^2+\dots} = 1 = y$



x-int: $(5,0),\ (-1,0)$

y-int: $(0, -\frac{5}{12})$