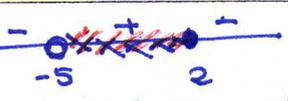
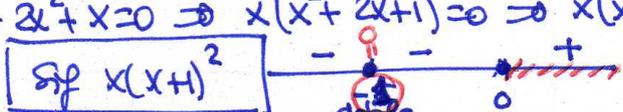
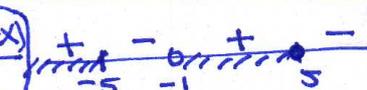
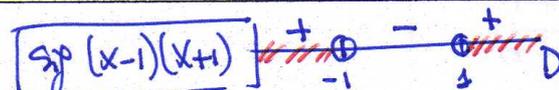
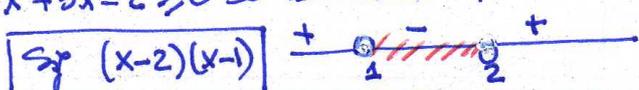


$y = \sqrt{\frac{2-x}{x+5}}$	$\frac{2-x}{x+5} \geq 0 \Rightarrow \text{sig}\left(\frac{2-x}{x+5}\right)$ $x=3 \neq$  $D_f = (-5, 2]$
$y = \frac{3x+9}{x^3-25x}$	$x^3-25x=0 \Rightarrow x(x^2-25)=0 \Rightarrow x=0; x=\pm 5$ $D_f = \mathbb{R} - \{ -5, 0, 5 \}$
$y = \sqrt{x^3+2x^2+x}$	$x^3+2x^2+x=0 \Rightarrow x(x^2+2x+1)=0 \Rightarrow x(x+1)^2=0$  $D_f = [0, \infty)$
$y = \sqrt{\frac{25-x^2}{x+1}}$	$\frac{25-x^2}{x+1} \geq 0 \Rightarrow \text{sig}\left(\frac{(5-x)(5+x)}{x+1}\right)$ $x=6 \neq$  $D_f = (-\infty, -5] \cup [-1, 5]$
$y = \frac{2\sqrt{x+1}}{x^2-1}$	$\left\{ \begin{array}{l} \text{N} \ x+1 \geq 0 \Rightarrow x \geq -1 \Rightarrow D_1 = [-1, \infty) \\ \text{D} \ x^2-1=0 \Rightarrow x=\pm 1 \text{ quitamos} \end{array} \right\} D_f = (-1, 1) \cup (1, \infty)$
$y = L(x^2-1)$	$x^2-1 > 0 \Rightarrow \text{sig}\left[\frac{(x-1)(x+1)}{x+1}\right]$ $x=2 \neq$  $D_f = (-\infty, -1) \cup (1, \infty)$
$y = \frac{2x-3}{\sqrt{-x^2+3x-2}}$	$-x^2+3x-2 \geq 0 \Rightarrow \Delta$ Cambia signo $x^2-3x+2 \leq 0$  $D_f = (1, 2)$
$y = \frac{\sqrt{2-x^2}}{\sqrt{1-x}}$	Independiente $\left\{ \begin{array}{l} D_1 \Rightarrow 2-x^2 \geq 0 \Rightarrow (\sqrt{2}-x)(\sqrt{2}+x) \geq 0 \Rightarrow D_1 = [-\sqrt{2}, \sqrt{2}] \\ D_2 \Rightarrow 1-x > 0 \Rightarrow D_2 = (-\infty, 1) \end{array} \right\} D_f = [-\sqrt{2}, 1]$
$f(x) = \frac{\sqrt{x-1}}{x+2}$	$\left\{ \begin{array}{l} \text{N} \ x-1 \geq 0 \Rightarrow x \geq 1 \Rightarrow D_1 = [1, \infty) \\ \text{D} \ x+2=0 \Rightarrow x=-2 \text{ quitamos (ya está filtrado)} \end{array} \right\} D_f = [1, \infty)$
$f(x) = \frac{\sqrt{x-2}}{16-x^2}$	$\left\{ \begin{array}{l} \text{N} \ x \geq 0 \Rightarrow D_1 = [0, \infty) \\ \text{D} \ 16-x^2=0 \Rightarrow x=\pm 4 \text{ quitar} \end{array} \right\} D_f = [0, 4) \cup (4, \infty)$
$f(x) = \frac{3-\sqrt{x-2}}{x^2-25}$	$\left\{ \begin{array}{l} \text{N} \ x-2 \geq 0 \Rightarrow x \geq 2 \Rightarrow D_1 = [2, \infty) \\ \text{D} \ x^2-25=0 \Rightarrow x=\pm 5 \text{ quitar} \end{array} \right\} D_f(x) = [2, 5) \cup (5, \infty)$

$y = \sqrt{x^2 - x} \cdot \sqrt{2 - x}$	$\begin{aligned} \uparrow Df_1 &\Rightarrow x(x-1) \geq 0 \quad \text{---} \frac{+}{-} \frac{-}{+} \quad Df_1 = (-\infty, 0] \cup [1, \infty) \\ \downarrow Df_2 &\Rightarrow 2-x \geq 0 \Rightarrow 2 \geq x \Rightarrow Df_2 = (-\infty, 2] \\ \downarrow Df &= Df_1 \cap Df_2 = (-\infty, 0] \cup [1, 2] \end{aligned}$
$y = \frac{x+3}{\sqrt{x-3}}$	$\begin{aligned} \uparrow x &\geq 0 \Rightarrow Df = [0, +\infty) \\ \downarrow \sqrt{x-3} &= 0 \Rightarrow \sqrt{x} = 3 \Rightarrow x=9 \text{ quitar} \end{aligned} \quad \left. \vphantom{\begin{aligned} \uparrow \\ \downarrow \end{aligned}} \right\} Df = [0, 9) \cup (9, +\infty)$
$y = e^{\frac{1}{x-1}}$	$Df = \mathbb{R} - \{1\}$
$y = \frac{L(2-x)}{x+1}$	$\begin{aligned} \uparrow 2-x > 0 &\Rightarrow 2 > x \Rightarrow DL = (-\infty, 2) \\ \downarrow x+1 &= 0 \Rightarrow x = -1 \text{ quitarlo} \end{aligned} \quad \left. \vphantom{\begin{aligned} \uparrow \\ \downarrow \end{aligned}} \right\} Df = (-\infty, -1) \cup (-1, 2)$
$y = \frac{3\sqrt{x^2-4}}{x^2+9}$	$\begin{aligned} \uparrow x^2-4 &\geq 0 \quad \text{---} \frac{+}{-} \frac{-}{+} \quad \left[\text{sig } \frac{x^2-4}{(x-2)(x+2)} \right] \\ \downarrow x^2+9 &= 0 \Rightarrow x^2 = -9 \text{ no sol.} \end{aligned} \quad \left. \vphantom{\begin{aligned} \uparrow \\ \downarrow \end{aligned}} \right\} Df = (-\infty, -2] \cup [2, \infty)$
$y = L\left(\frac{x+1}{3-x}\right)$	$\frac{x+1}{3-x} > 0 \Rightarrow \left[\text{sig } \frac{x+1}{3-x} \right] \quad \text{---} \frac{+}{-} \frac{-}{+} \quad Df = (-1, 3)$
$y = \frac{2x}{2\sqrt{x^2-16}}$	$\Rightarrow x^2-16 > 0 \Rightarrow (x-4)(x+4) \quad \text{---} \frac{+}{-} \frac{-}{+} \quad Df = (-\infty, -4) \cup (4, \infty)$
$y = \sqrt{\frac{x^3+5x^2}{x-1}}$	$\frac{x^3+5x^2}{x-1} \geq 0 \Rightarrow \left[\text{sig } \frac{x^2(x+5)}{x-1} \right] \quad \text{---} \frac{+}{-} \frac{-}{+} \frac{+}{+} \quad \begin{matrix} 0 \\ \text{doble} \end{matrix} \quad Df = (-\infty, -5] \cup (-1, +\infty)$
$f(x) = \sqrt{x^2-5x} + \sqrt{x}$	$\begin{aligned} \uparrow Df_1 &\Rightarrow x^2-5x \geq 0 \Rightarrow x(x-5) \geq 0 \quad \text{---} \frac{+}{-} \frac{-}{+} \quad Df_1 = [0, 5] \cup [5, +\infty) \\ \downarrow Df_2 &\Rightarrow x \geq 0 \Rightarrow Df_2 = [0, \infty) \\ \downarrow Df &= Df_1 \cap Df_2 = [5, \infty) \end{aligned}$
$f(x) = \frac{3\sqrt{x+5}-2}{5-x}$	$\begin{aligned} \uparrow x+5 &\geq 0 \Rightarrow x \geq -5 \quad Df = [-5, +\infty) \\ \downarrow 5-x &= 0 \Rightarrow x=5 \text{ quitarlo} \end{aligned} \quad \left. \vphantom{\begin{aligned} \uparrow \\ \downarrow \end{aligned}} \right\} Df = [-5, 5) \cup (5, +\infty)$
$f(x) = \frac{3-\sqrt{x}}{x^2-2x}$	$\begin{aligned} \uparrow x &\geq 0 \Rightarrow Df = [0, +\infty) \\ \downarrow x^2-2x &= 0 \Rightarrow x(x-2) = 0 \Rightarrow x=0, x=2 \end{aligned} \quad \left. \vphantom{\begin{aligned} \uparrow \\ \downarrow \end{aligned}} \right\} Df(x) = (0, 2) \cup (2, +\infty)$