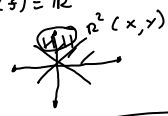


Consumo Partida (dominio) $\rightarrow \mathbb{R}$
 Consumo de Llegada (codominio) $\rightarrow \mathbb{R}$

$y = x^2$ $\text{Dom}(f) = \mathbb{R}$
 $f: \mathbb{R} \rightarrow \mathbb{R}$
 $\text{Dom}(f) = \mathbb{R}$

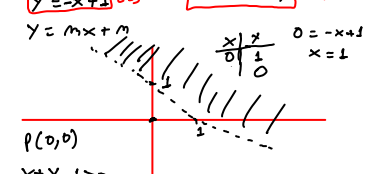


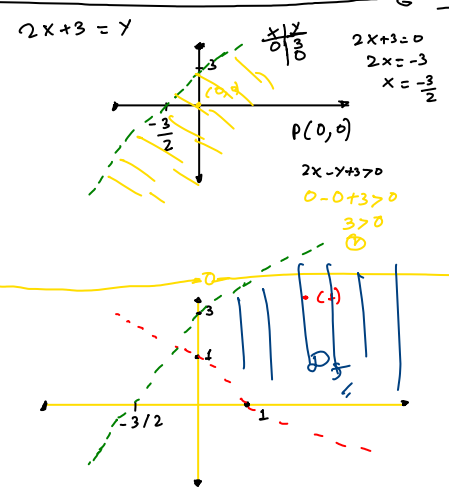
$f(x,y) = \frac{\ln(x+y-1)-4}{\sqrt{2x-y+3}}$

- Reglas y condiciones:
- (1) $\frac{a}{b}$; $b \neq 0$
 - (2) $\sqrt[n]{a}$: $a \geq 0$
 - (3) $\ln(a)$: $a > 0$
 - (4) $\arcsin(x)$; $|x| \leq 1$
 $\arccos(x)$; $|x| \leq 1$
- $\text{Dom } f = \{ (x,y) \in \mathbb{R}^2 : x+y-1 > 0 \wedge 2x-y+3 > 0 \}$

DESCRIBIR EL DOMINIO

Curvas Fronteras:

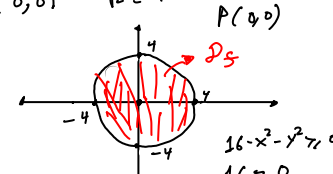
$x+y-1=0$ $2x-y+3=0$
 $y = -x+1$ (1) $2x+3=y$ (2)
 $y = mx+n$

 $x/0 = y/1 = 0 = -x+1$
 $x=1$
 $x+y-1 > 0$
 $1+1-1 > 0?$
 $1 > 0$ (F)



$f(x,y) = \sqrt{16-x^2-y^2}$

$\text{Dom}(f) = \{ (x,y) \in \mathbb{R}^2 : 16-x^2-y^2 \geq 0 \}$

Curva Frontera:

$16-x^2-y^2=0$
 $16 = x^2+y^2$
 $x^2+y^2 = r^2$
 $r=4$

 $16-x^2-y^2 \geq 0$
 $16 \geq 0$
 (V)