## Analise Maternatica (1ª aula)

Portuada de ax= x2
Portuada de x2 = ax

Estudan Denivadas e primitivas.

Ex:

Determine o dominio da funças:

R:

$$\mathcal{P}_{q}: \left\{ x \in \mathbb{R}: \frac{x-4 \neq 0}{2} \wedge \frac{x+3 \geq 0}{2} \wedge \frac{2-x>0}{3} \right\}$$

20-4 to (=) x + 4

3 2-x>0 (=) 2>x (=) x (2



(a) 
$$f(x) = \sqrt[3]{\frac{x}{2x-3}}$$
  
Of  $= \left\{ x \in \mathbb{R}: 2x-3 \neq 0 \land x > 0 \right\}$ 

$$2x-3\neq0$$
 (=1  $x\neq+\frac{3}{2}$ 

$$\mathcal{D} = \left[ -\infty, 3 \right]$$

b) 
$$f(x) = \sqrt{\frac{x+3}{x+2}}$$

$$Pf = \{ x \in \mathbb{R} : x - 2 \neq 0 \land \frac{x+3}{x-2} > 0 \}$$
  
 $x - 2 \neq 0 \in \mathbb{R} : x \neq 2$  minim

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	x + 3	_	0	+	+	+
	x - 2	-	-		0	. +
•	x - x = x	+	0	-	5.5	4

$$f(x) = \sqrt{x-3} + \ln(413x \cdot x^2)$$

- Ø x-3 ≥0 (=) x ≥ 3 (=) x € [3;+4[
- (a) x €0 (=) x € 1R \ € 0 €
- 3 4+3× -×2 >0 (=) × €]-1, 4[