1. 
$$|2x-1| = 1$$
 $2x-1=1$  on  $2x-1=-1$ 
 $2x = 2$  on  $2x = 0$ 
 $x = 1$  on  $x = 0$ 

$$\frac{2}{2} + \frac{x-1}{3} \ge 4$$

Multiplicar 6 ares dois lados da inequação

6 • 
$$\frac{7}{3}$$
 + 6 •  $\frac{7}{3}$  = 6 • 4  
 $3(x-1)$  +  $2x$  = 24  
 $3x-3+2x$  = 24  
 $5x$  = 27  
 $x$  =  $\frac{27}{5}$ 

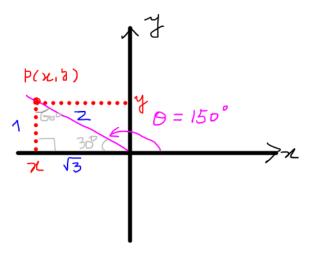
0 conjunts soluças  $S = \{ x \in \mathbb{R} \mid x \ge \frac{27}{5} \} = \left[ \frac{27}{5}, +\infty \right)$ 

3. 
$$D_f = \{x \in |R| - 3 \le x \le 3\} = [-3, 3] = A$$
 $Im_f = \{j \in R| - 2 \le \gamma \le 2\} = [-2, 2] = B$ 

Como  $f : A \rightarrow B$ , implica que  $f^{-1} : B \rightarrow A$ 

Logo 
$$D_{f^{-1}} : \{ x \in \mathbb{R} \mid -2 \le x \le 2 \} = [-2, 2]$$
  
 $\exists x \in \mathbb{R} \mid -3 \le y \le 3 \} = [-3, 3]$ 

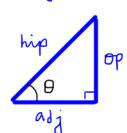
4. 
$$\Theta = \frac{5\pi}{6} = 150^{\circ}$$



Podemos supor x=-13, y=1

$$\Delta e^{-5\pi i} = \frac{1}{2}$$

$$\Delta e^$$



$$ep \quad tg\theta = \frac{ep}{adj} = 2 = 2$$

Podemos mpor op = 2 e adj = 1

Pelo Teorema de Pitagon,

$$hip^2 = op^2 + adj^2$$
 $hip^2 = 2^2 + 1^2 = 4 + 1 = 5$ 

Assim Nen D = 
$$\frac{\sigma P}{hip} = \frac{2}{\sqrt{5}} = \frac{2\sqrt{5}}{5}$$
 cossec D =  $\frac{1}{5}$  sec D =  $\frac{1}{5}$  =  $\frac{\sqrt{5}}{1}$  =  $\frac{1}{5}$  cos D =  $\frac{1}{5}$  =  $\frac{1}{5}$  cot  $\frac{1}{5}$  =  $\frac{1}{5}$ 

$$cossel \theta = \frac{1}{sen \theta} = \frac{\sqrt{5}}{2}$$

$$sec \theta = \frac{1}{cos \theta} = \frac{\sqrt{5}}{1} = \sqrt{5}$$

$$\cos \theta = \frac{\text{adj}}{\text{mip}} = \frac{1}{\sqrt{5}} \quad \frac{\sqrt{5}}{5} \quad \cot \theta = \frac{1}{tg\theta} = \frac{1}{2}$$

7. 
$$2^{\log_2 3} + \log_2 5 = 2^{\log_2 15} = 15$$