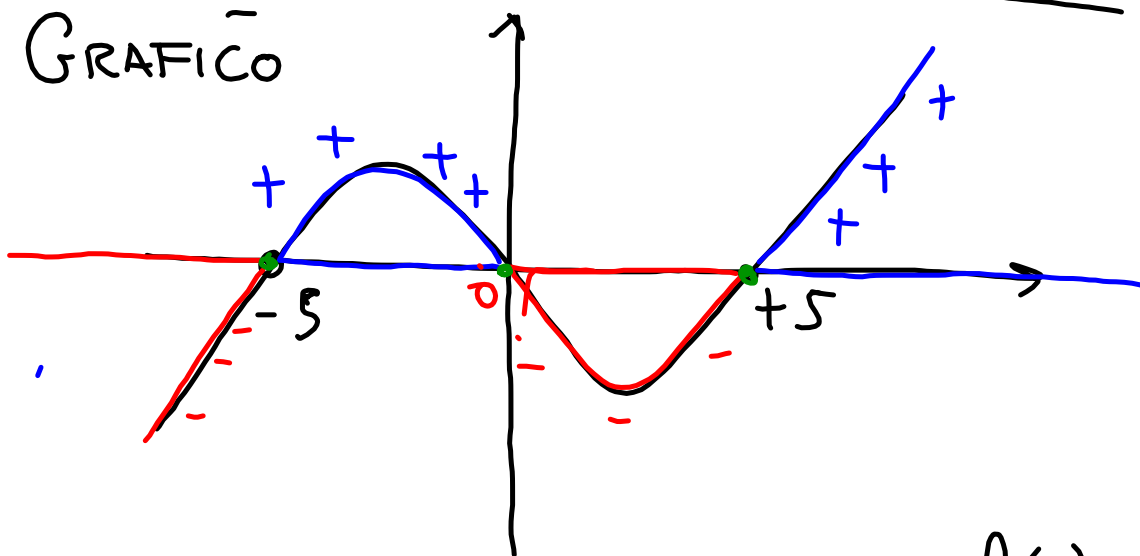


SEGNO DELLA FUNZIONE



$$y = f(x)$$

POSITIVA $\leftrightarrow f(x) > 0$

NEGATIVA $\leftrightarrow f(x) < 0$

$$f(x) < 0$$

$$x < -5 \vee 0 < x < 5$$

$$f(x) > 0$$

$$x > 5 \vee -5 < x < 0$$

$$y = \frac{x+1}{x-3}$$

1) STUDIO DEL DOMINIO

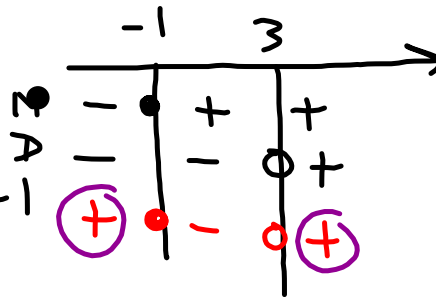
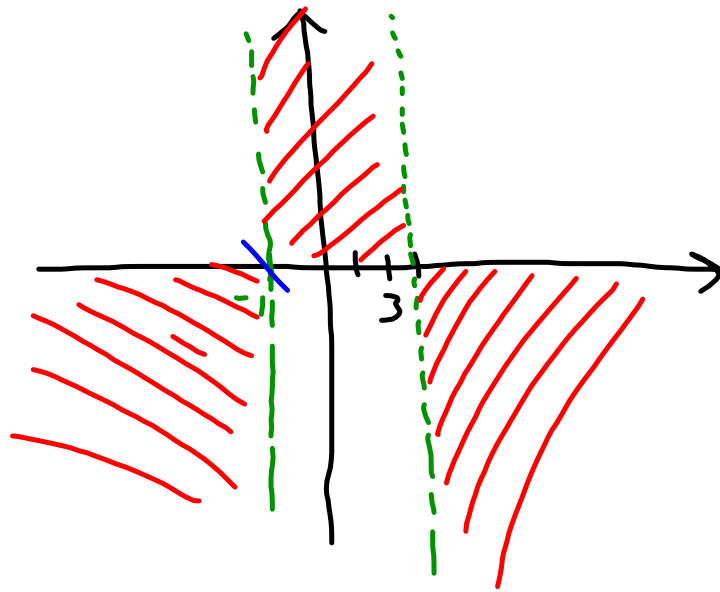
$$D: \mathbb{R} - \{3\}$$

2) STUDIO SEGNO

$$\frac{x+1}{x-3} \geq 0$$

$$N: x+1 \geq 0 \quad x \geq -1$$

$$D: x-3 > 0 \quad x > 3$$



$$y = \frac{(x+3)}{(x+4)(1-x)}$$

$$D: \mathbb{R} - \{-4, 1\}$$

$$N: x+3 \geq 0$$

$$x \geq -3$$

$$D: x+4 > 0$$

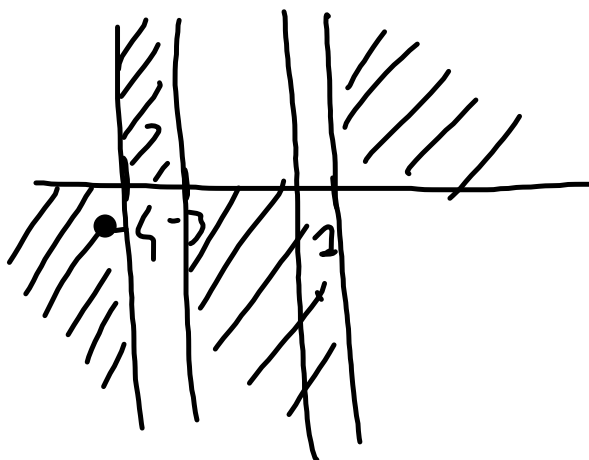
$$x > -4$$

$$1-x > 0$$

$$-x > -1$$

$$x < 1$$

	-4	-3	1	
-	-	+	+	
-	+	+	+	
+	+	+	-	
⊕	⊖	⊕	⊖	



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