

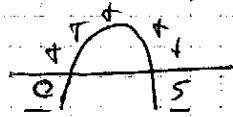
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$$\begin{cases} 5x - x^2 > 0 \\ x > \frac{2}{x} \end{cases} \quad 1^\circ \text{ mseg}$$

$$5x - x^2 > 0 \quad 5x - x^2 = 0$$

$$x(5-x) = 0 \quad x=0 \quad x=5$$



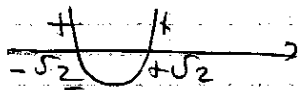
$$0 < x < 5$$

2° mseg

$$x > \frac{2}{x} \quad x - \frac{2}{x} > 0$$

$$\frac{x^2 - 2}{x} > 0$$

$$N > 0 \quad x^2 - 2 > 0 \quad x^2 - 2 = 0 \quad x^2 = 2 \quad x = \pm\sqrt{2}$$

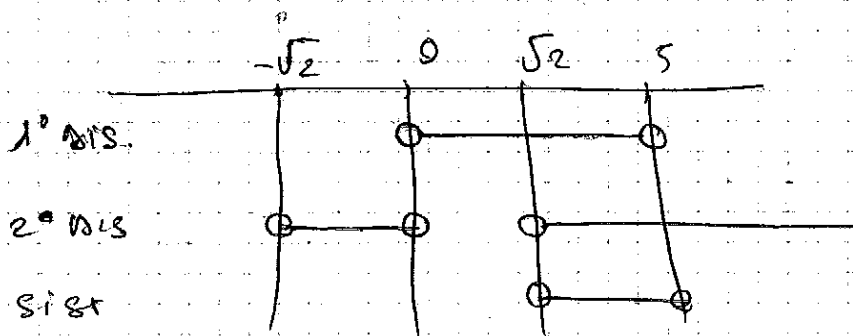


$$x < -\sqrt{2} \vee x > \sqrt{2}$$

$$D > 0 \quad x > 0$$

	$-\sqrt{2}$	0	$+\sqrt{2}$
N	+	-	-
D	-	-	+
N/D	-	+	-

$$-\sqrt{2} < x < 0 \vee x > \sqrt{2}$$



$$\sqrt{2} < x < 5$$

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1° mseg

$$N \geq 0 \quad x \geq 0$$

$$D > 0 \quad x^2 - 1 > 0$$

$$x = \pm 1 \quad x < -1 \vee x > +1$$

	-1	0	1
N	-	+	+
D	+	-	+
N/D	-	+	-

$$-1 < x \leq 0 \vee x > 1$$

2° mseg

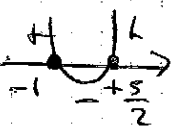
$$2x^2 - 3x - 5 \leq 0$$

$$\Delta = 9 - 4 \cdot 2 \cdot (-5) = 49$$

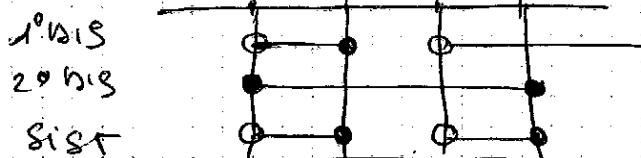
$$x_{1,2} = \frac{3 \pm 7}{4}$$

$$\frac{3-7}{4} = -\frac{4}{4} = -1$$

$$\frac{3+7}{4} = \frac{10}{4} = \frac{5}{2}$$



$$-1 \leq x \leq \frac{5}{2}$$



$$-1 < x \leq 0 \vee 1 < x \leq \frac{5}{2}$$