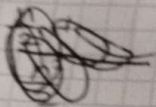


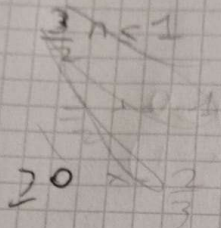
ex 982

$h = \text{f. disto} \in \mathbb{R}^+$

$$\frac{1}{h} + \frac{1}{\frac{h}{2}} \leq 1$$



$$\frac{1+2-h}{h} \geq 0$$



$$3-h \geq 0$$

$$h \leq 3$$

tro o e 3

$$h \geq 0$$

$$\begin{array}{r} -0+3- \\ \hline 1+1- \\ \hline \end{array}$$

ma Al maxima  $\Rightarrow$

$$S = \{3\}$$

$$65 \text{ sgr}$$

$$b = 5 - 2x$$

$$h = 3x - 1$$

$$b > h$$

$$A \in \mathbb{R}^+ \Rightarrow x \in \mathbb{R}^+$$

$$\begin{aligned} (5 - 2x)(3x - 1) &> 0 \\ (5 - 2x) &> (3x - 1) \end{aligned}$$

1°

$$15x - 5 - 6x^2 + 2x > 0$$

$$-6x^2 - 17x + 5 < 0$$

$$x_{1,2} = \frac{17 \pm \sqrt{169}}{12} = \frac{30}{12} \quad \frac{1}{3} < x < \frac{15}{2}$$

$$(5 - 2x) > (3x - 1)$$

$$-5x + 6 > 0$$

$$5x - 6 < 0$$

$$\frac{5x}{5} < \frac{6}{5}$$

$$\begin{array}{ccc} 1/3 & 6/5 & 5/2 \\ | & | & | \\ \hline \end{array}$$

$$\left[ \frac{1}{3}; \frac{6}{5} \right]$$

$$S; \left\{ \frac{1}{3} < x < \frac{6}{5} \right\}$$

Compti  
es 498

$$\begin{cases} (x+1)^2 \leq 16 \\ x(x-7) \geq 4(5-2x) \end{cases}$$

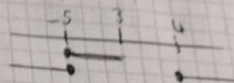
1° TERM

$$x^2 + 4x - 15 < 0$$

$$x^2 + 2x - 15 < 0$$

$$S: -5 < x < 3$$

$$\text{es } x_{1,2} = -5; 3$$



2° TERM

$$x^2 - 7x \geq 20 - 8x$$

$$4x^2 - 7x - 20 \geq 0$$

$$\text{es } x_{1,2} = \frac{7 \pm \sqrt{49 + 320}}{8} = \frac{7 \pm \sqrt{369}}{8}$$

$$x \leq -5 \vee x \geq 4$$

$$S: \{5\}$$

$$S = 5$$

es solve

$$\begin{cases} 2x - 3 < 0 \\ 1 - x \leq 0 \\ 1 - 4x^2 \leq 0 \end{cases}$$

$$1) \frac{2x < 3}{2} \quad x < \frac{3}{2}$$

$$2) 1 - x \leq 0 \quad x \geq 1$$

$$4x^2 - 1 \leq 0$$

$$4x^2 = 1$$

$$x^2 = \frac{1}{4} \quad x = \pm \frac{1}{2}$$

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

$$S: \{x \in \mathbb{R}\}$$

$$S: \emptyset$$



es 536

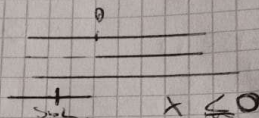
$$\frac{1+x^2}{3x} \leq 0$$

$$x < (x+2)(3-x)$$

$$\frac{1+x^2}{3x} \leq 0$$

$$N \quad x^2 + 1 \geq 0 \quad S: \forall x \in \mathbb{R}$$

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



$$2^o \quad x < 3x - x^2 + 6 - 2x$$

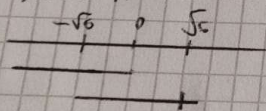
$$x^2 < 6$$

$$GA \quad -\sqrt{6} < x < \sqrt{6}$$

$$x^2 > 6$$

$$x = \pm \sqrt{6}$$

SCHEMA



$$S: -\sqrt{6} < x < \sqrt{6}$$

$$S: ]-\sqrt{6}; \sqrt{6}[$$