

St. Mogy16. Ypa breenus. Hepabenerba

Onp: 
$$M_{ogyn6}$$
  $\phi$ -yell (rescna)
$$|f(x)| = \int f(x), ecnu f(x) \neq 0$$

$$|-f(x)| = \int f(x), ecnu f(x) < 0$$

Coerceba:

2) 
$$|a| \ge a$$
  
3)  $|a| > b| = \frac{|a|}{|b|} \left( \frac{|a|}{|b|} = \frac{|a|}{|b|} \right)$ 

5) |a'(= |a|2 = a2

$$(0) | (\alpha + \beta) | = |\alpha| + |\beta|$$

$$7) |a-b| \ge (|a|-|b|)$$

Замегание: Равносильные переходы для ур-й с 1 | A = (B | <=> | A = B A = -B 2) (A = B <=> (A = B A = - B (nocodo: penceneix ypobrenin c mogynem перебор Onp-e mogyna Dabnow 16KBIL repexogo1 Рассмотрим примеры T) |2x-3|=3-2x=-(2x-3)Orber: X \ \ \frac{3}{2}

2. 3 aneno repenentosi

Trumer: 
$$|x-2|$$
 $|x-2|$ 
 $|x-2$ 

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4.2. Hepabenerba bugo IAI<B

/-4<×<-1/

Orber: (-13,-4) U (-4,-1)

1) Ecnu B>0-47 200M. pabrocunsu61 paccy\*geras 2) Ear B < 0 - 4/2-e see ureet peur, kan u -) Cabnocusinos 1x-3x+11 < x-2 - nonposquire persons  $(=) \begin{cases} X^{2} - 3x + 1 < X - 2 \\ X^{2} - 3x + 1 > 2 - X \end{cases}$  $\begin{cases} x^{2} - 4x + 3 < 0 & | (< x < 3) \\ x - 2x - (> 0) & | (x > 1 + \sqrt{2}) \end{cases}$ LX<1-J2 Orber: (1+12; 3)

4.3. Repabenerba Buga IAI>B (A12B => (A2B A<-B 1) Ecru B>0 -> UZ ZEOM. pabnocuments 2) Ecnu BEO, TO 1A1>B-Bolnonneno VX Rax u coborynnoco: Ecnu A>O => A>B X => pobrocur6141 ECM A < 0 => A < B VX => Pabrocunox61 1/34  $|x^2-1/2|-x^2| > 2x+2$  $= \int \left[ \frac{1}{x^{2}} - \frac{1}{5} \times + 2 \right] - \frac{1}{x^{2}} + \frac{1}{5} \times + 2 \right] = \int \left[ \frac{1}{x^{2}} - \frac{1}{5} \times + 2 \right] = \frac{1}{5} \times + 2 = \frac{1}{5} \times +$ ( X \ O  $\int x^{2} - \xi_{x} + 2 > \chi^{2} + 2 \times + 2$  $\int_{0}^{2} x^{2} + 2 \le 0$ (=)  $X + 8x + 2 \le -x^{2} - 2x - 2$  $// x^2 - fx + 2 \le x^2 - 2x - 2$  $X \ge \frac{2}{3}$ 

 $\left[\left(x^{2}-f_{x}+2\geqslant-x^{2}+2\times+2\right)\right]$ 

1 x - 5 x 2 D

Orber: (-0;0]U[1,2]U[5,+0) 4.4. Hepabenerbo buga IAI < 1BI |A ( V |B (=> (A-B)(A+B) V O And on Juan republication Truncep (x2+10x+161 > 1x2-161  $= > (10x + 32)(2x^2 + 10x) > 0$ (X+ 16) x (X+5) >0 Orber: [-5; - [6] v (0;+0)