

1.01.16

תורת

תחום הצבה - ל. 3.50/כ3

$$|x-7| \leq 3 - \sqrt{x-4}$$

$$\sqrt{x-4} \leq 3 - |x-7| \quad /(\cdot)^2$$

$$x-4 \leq 9 - 6|x-7| + (x-7)^2$$

$$0 \leq |x-7| \leq 4-x+9+x^2-14x+49$$

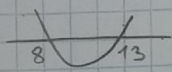
$$0 \leq |x-7| \leq x^2-15x+62$$

$$0x-42 \leq x^2-15x+62$$

$$-6x+42 \leq x^2-15x+62$$

$$0 \leq x^2-21x+104$$

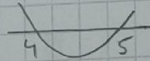
$$0 \leq (x-8)(x-13)$$



$$8 > x \quad x > 13$$

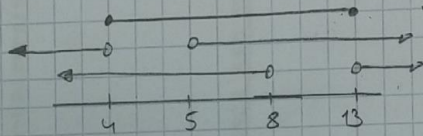
$$0 \leq x^2-9x+20$$

$$0 \leq (x-5)(x-4)$$



$$4 > x \quad x > 5$$

תחום הצבה של תחום



$$x=4 \quad 5 < x < 8$$

$$x-4 > 0$$

$$x > 4$$

פתרון תחום הצבה

$$3 - \sqrt{x-4} \geq 0$$

$$3 \geq \sqrt{x-4}$$

$$9 \geq x-4$$

$$13 \geq x$$

תחום

$$4 \leq x \leq 13$$