

3.72/2

$$4 \frac{(x+\sqrt{x^2-2})}{-5 \cdot 2} \leq 6$$

$$2 \frac{(x+\sqrt{x^2-2})}{-5 \cdot 2 \cdot 2} \leq 6$$

$$\frac{2(x+\sqrt{x^2-2})}{-5 \cdot 2} \leq 6$$

$$\frac{(x+\sqrt{x^2-2})}{2} = t \quad (3)$$

$$t^2 - \frac{5}{2}t \leq 6$$

$$t^2 - \frac{5}{2}t - 6 \leq 0 \quad | \cdot 2$$

$$2t^2 - 5t - 12 \leq 0$$

$$2t^2 - 8t + 3t - 12 \leq 0$$

$$2t(t-4) + 3(t-4) \leq 0$$

$$(t-4)(2t+3) \leq 0$$

$$\frac{-3}{2} \quad - \quad 4$$

$$-\frac{3}{2} \leq t \leq 4$$

0 < 3 < 11 = 2(3+2)

$$\frac{x+\sqrt{x^2-2}}{2} \leq 4$$

$$\frac{x+\sqrt{x^2-2}}{2} \leq 2^2$$

$$x+\sqrt{x^2-2} \leq 2$$

$$(x \leq 2) \leftarrow \sqrt{x^2-2} \leq 2-x \quad | (\)^2$$

$$x^2 - 2 \leq 4 - 4x + x^2$$

$$4x \leq 6$$

$$\boxed{x \leq 1.5}$$

$$\frac{x+\sqrt{x^2-2}}{2} \geq -\frac{3}{2}$$

$$\boxed{x \geq \sqrt{2}}$$

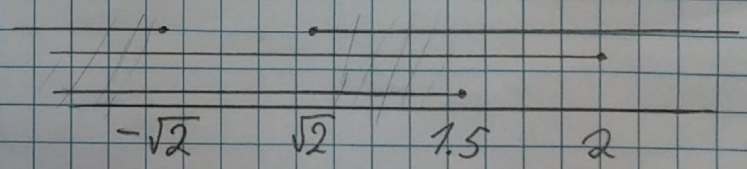
27320 10/17

$$x^2 - 2 \geq 0$$

$$(x-\sqrt{2})(x+\sqrt{2}) \geq 0$$

$$\frac{-}{-\sqrt{2}} \quad - \quad \frac{+}{\sqrt{2}}$$

$$-\sqrt{2} \leq x \quad \vee \quad x \geq \sqrt{2}$$



$$-\sqrt{2} \geq x$$

$$\sqrt{2} \leq x \leq 1.5$$