

1.9.1
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$$\frac{1}{4\sqrt{x} - 3 \cdot 2\sqrt{x} + 2} < \frac{1}{6}$$

$$\frac{6 - 4\sqrt{x} + 3 \cdot 2\sqrt{x} - 2}{6(4\sqrt{x} - 3 \cdot 2\sqrt{x} + 2)} < 0$$

$$0 > \frac{-t^2 + 3t + 4}{6(t^2 - 3t + 2)} \stackrel{A=2\sqrt{x}}{\leq} \frac{-(t-4)(t+1)}{6(t-2)(t-1)}$$

$$\begin{array}{ccccccc} & & + & & + & & \\ -1 & & 1 & - & 2 & & 4 - \end{array}$$

$x \geq 0$ ומהאם מ/מ/מ

$$4\sqrt{x} - 3 \cdot 2\sqrt{x} + 2 \neq 0$$

$$t^2 - 3t + 2 \neq 0$$

$$t \neq 2, 1$$

$$2\sqrt{x} \neq 2 \rightarrow \sqrt{x} \neq 1$$

$$2\sqrt{x} \neq 1 \rightarrow x \neq 0$$

$$\begin{array}{l} t > 4 \rightarrow 2\sqrt{x} > 4 \rightarrow x > 4 \\ 1 < t < 2 \rightarrow 1 < 2\sqrt{x} < 2 \rightarrow 0 < x < 1 \\ t < -1 \rightarrow 2\sqrt{x} < -1 \rightarrow \emptyset \end{array}$$

$0 < x < 1, x > 4$: פסול