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$$\sqrt{\frac{1}{x} - \frac{1}{x^2}} + \sqrt{\frac{4x-4}{x^2}}$$

$$\sqrt{\frac{x-1}{x^2}} + \sqrt{\frac{4(x-1)}{x^2}}$$

$$\frac{1}{|x|} \sqrt{x-1} + \frac{2}{|x|} \sqrt{x-1}$$

$$\sqrt{x-1} \left(\frac{1}{x} + \frac{2}{x} \right) = \sqrt{x-1} \frac{3}{x}$$

$x \geq 1$ e folgo
il vel.
Assoluto

$$\text{C.E. (I)} \begin{cases} \frac{1}{x} - \frac{1}{x^2} \geq 0 \\ \frac{4x-4}{x^2} \geq 0 \end{cases} \begin{cases} x \geq 1 \\ x \geq 1 \end{cases}$$

$$\frac{1}{x} - \frac{1}{x^2} \geq 0 \quad \frac{x-1}{x^2} \geq 0$$

$$N \geq 0 \rightsquigarrow x \geq 1$$

$$D > 0 \rightsquigarrow x^2 > 0 \quad x \neq 0$$

	0	1	
N	-	-	+
D	+	+	+
	-	-	+

$$\text{II) } \frac{4x-4}{x^2} \geq 0$$

$$N \geq 0 \rightsquigarrow 4x-4 \geq 0 \rightsquigarrow x \geq 1$$

$$D > 0 \rightsquigarrow x^2 > 0 \rightsquigarrow \text{Sempre } x \neq 0$$

$$\text{C.E. finale } x \geq 1$$

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$$\sqrt{\frac{(a+2)^2}{3\sqrt{(a+2)^4}}} : \sqrt{\sqrt{(a+2)^6}}$$

C.E. Sempre vero tranne
 $a \neq -2$

$$\sqrt[6]{\frac{(a+2)^2}{(a+2)^4}} \cdot \frac{1}{\sqrt[4]{(a+2)^6}} = \sqrt[6]{(a+2)^{-2}} \cdot \frac{1}{\sqrt{(a+2)^3}} =$$

$$\frac{1}{(a+2)^{\frac{2}{3}}} \sqrt[6]{\frac{1}{a+2}}$$