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

$$= \sqrt{1-\frac{3}{x}+\frac{2}{x^2}}$$

$$\frac{\sqrt{x^2-3x+2}}{x} - 1 = \sqrt{1-\frac{3}{x}+\frac{2}{x^2}} - 1$$

$$= \frac{1-\frac{3}{x}+\frac{2}{x^2}-1}{\sqrt{1-\frac{3}{x}+\frac{2}{x^2}}+1}$$

$$= \frac{-\frac{3}{x}+\frac{2}{x^2}}{\sqrt{\frac{x^2-3x+2}{x^2}}+1}$$

$$= \frac{-\frac{3}{x}+\frac{2}{x^2}}{\frac{\sqrt{x^3-3x+2}}{x}+1}$$

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

Verso (pinho?)