$$\frac{x^2+x-6}{2-\sqrt{x-2}}$$

$x-2 \geq 0$

$D = [2, 6) \cup (6, +\infty)$

$x \to 6^{\pm}$ $\quad$ $\frac{36}{0}$

$$\frac{(x^2+x-6)(2+\sqrt{x-2})}{4-(x-2)} = 6-x$$

$$\frac{x^2+x-42}{2-\sqrt{x-2}}$$

$x \to 6 \qquad \frac{0}{0} \overset{!!}{=} -13 \cdot 4 = -52$

$$\frac{(x^2+x-42)(2+\sqrt{x-2})}{(2-\sqrt{x-2})(2+\sqrt{x-2})} = \frac{(x-6)(x+7)(2+\sqrt{x-2})}{4-(x-2)} \quad (-1)$$

$$4-(x-2) = 6-x$$