

$$\begin{aligned}
& 2 \sqrt{\frac{11-6\sqrt{2}}{2}} + 3 \sqrt{\frac{2(11-6\sqrt{2})}{2}} + (\sqrt{5}+3)(\sqrt{5}-1)^2 = \\
& = \sqrt{2} \sqrt{11-6\sqrt{2}} + 3 \sqrt{11-6\sqrt{2}} + \cancel{5\sqrt{5}} - \cancel{10} + \cancel{\sqrt{5}} + \cancel{15} - \cancel{6\sqrt{5}} + 3 = \\
& = \sqrt{11-6\sqrt{2}} (\sqrt{2}+3) + 8
\end{aligned}$$