

$$\begin{aligned} & \frac{5}{2-\sqrt{6}} \cdot \frac{2+\sqrt{6}}{2+\sqrt{6}} \\ &= \frac{5(2+\sqrt{6})}{(2-\sqrt{6})(2+\sqrt{6})} \\ &= \frac{5(2+\sqrt{6})}{4+2\sqrt{6}-2\sqrt{6}-6} = \frac{5(2+\sqrt{6})}{-2} \\ &= \frac{10+5\sqrt{6}}{-2} \end{aligned}$$

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$$\begin{aligned} & 4\sqrt{5} + 2\sqrt{20} \quad \xrightarrow{2\sqrt{5} \cdot \sqrt{4}} \\ & \quad \quad \quad \begin{array}{c} 5 \quad 4 \\ \swarrow \searrow \\ 2 \quad 2 \end{array} \\ & \quad \quad \quad \frac{2 \cdot 2 \sqrt{2^2 5}}{2 \cdot 2 \sqrt{2^2 5}} \\ & \quad \quad \quad \downarrow \quad \downarrow \\ & 4\sqrt{5} + 4\sqrt{5} \\ & \quad \quad \quad \textcircled{8\sqrt{5}} \end{aligned}$$

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