



$$= \frac{1}{4-2\sqrt{2}} \left( \frac{1}{4+2\sqrt{2}} - \frac{1}{4} \right) \left( \frac{1}{2-4} \right) \left( \frac{1}{4+2\sqrt{2}} \right) \left( \frac{1}{4+2\sqrt{2}} - \frac{1}{4+2\sqrt{2}} - \frac{1}{4+2\sqrt{2}} \right) \left( \frac{1}{4+2\sqrt{2}} - \frac{1}{4+2\sqrt{2}} -$$

$$= \frac{1}{4} \left( (2+\sqrt{2})\alpha + (\sqrt{2})\beta \right) \begin{bmatrix} 1 \\ \sqrt{12} - 1 \end{bmatrix}$$

$$+ \frac{1}{4} \left( (2-\sqrt{2})\alpha + (-\sqrt{2}\beta) \right) \begin{bmatrix} 1 \\ \sqrt{12} - 1 \end{bmatrix}$$

$$= \frac{1}{4} \begin{bmatrix} 4\alpha \\ (2+\sqrt{2})(\sqrt{2} - 1)\alpha + (\sqrt{2}\sqrt{2} - 1)\beta \\ (2\sqrt{2} - 2 + 2 - \sqrt{2})\alpha + (2-\sqrt{2})\beta \end{bmatrix}$$

$$= \frac{1}{4} \begin{bmatrix} 4\alpha \\ (2\sqrt{2} - 2 + 2 - \sqrt{2})\alpha + (2 + \sqrt{2})\beta \\ (-(2\sqrt{2} + 2 - 2 - \sqrt{2})\alpha + (2 + \sqrt{2})\beta \end{bmatrix}$$

$$= \frac{1}{4} \begin{bmatrix} 4\alpha \\ \sqrt{2}\alpha + (2-\sqrt{2})\beta - (\sqrt{2})\alpha + (2 + \sqrt{2})\beta \end{bmatrix}$$

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$$= \frac{1}{4} \begin{bmatrix} 4\alpha \\ \sqrt{2}\alpha + (\sqrt{2}\sqrt{2})\alpha + (\sqrt{2}\sqrt{2})\beta \end{bmatrix} \begin{bmatrix} 1 \\ \sqrt{2}\alpha + (\sqrt{2}\sqrt{2})\beta \end{bmatrix}$$

$$= \frac{1}{4} \begin{bmatrix} 4\alpha \\ \sqrt{2}\alpha + (\sqrt{2}\sqrt{2})\alpha + (\sqrt{2}\sqrt{2})\beta \end{bmatrix} \begin{bmatrix} 1 \\ \sqrt{2}\alpha + (\sqrt{2}\sqrt{2}\sqrt{2})\beta \end{bmatrix} \begin{bmatrix} 1 \\ \sqrt{2}\alpha + (\sqrt{2}\sqrt{2})\beta \end{bmatrix} \begin{bmatrix} 1 \\ \sqrt{2}\alpha + (\sqrt{2}\sqrt{2}\sqrt{2})\beta \end{bmatrix} \begin{bmatrix} 1 \\ \sqrt{2}\alpha + (\sqrt{2}\sqrt$$