

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

$$= \frac{(\sqrt{2}-\sqrt{4}-1+\sqrt{2})(\sqrt{2}-2)}{\sqrt{4}-\cancel{2\sqrt{2}}+\cancel{2\sqrt{2}}-4} = \frac{(2\sqrt{2}-3)(\sqrt{2}-2)}{2-4} =$$

$$= \frac{\overset{2 \cdot 2 = 4}{2\sqrt{4}} - 4\sqrt{2} - 3\sqrt{2} + 6}{-2} = \frac{10 - 7\sqrt{2}}{-2} =$$

$$= \boxed{\frac{7\sqrt{2} - 10}{2}}$$