

Answer on question 35937 – Math – Algebra

Find the positive square root of $3+2\sqrt{2}$.

Solution

$$\sqrt{3 + 2\sqrt{2}} = \sqrt{2 + 2\sqrt{2} + 1} = \sqrt{(\sqrt{2})^2 + 2\sqrt{2} + 1^2} = \sqrt{(\sqrt{2} + 1)^2} = \sqrt{2} + 1.$$

Answer: $\sqrt{2} + 1$.