

November 27th

$$\left( \sqrt[5]{\sqrt{18} + \sqrt{2}} \right)^2$$

$$\sqrt{18} + \sqrt{2} = 3\sqrt{2} + \sqrt{2} = 4\sqrt{2}$$

$$4\sqrt{2} = 2^2 \times 2^{1/2} = 2^{5/2} =$$

$$\sqrt[5]{2^{5/2}} = \sqrt{2}$$

$$\therefore (\sqrt[5]{\sqrt{18} + \sqrt{2}})^2 =$$

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