

$$\#1: a - \frac{1}{2} \cdot a \cdot \sqrt{2} \quad \text{User}$$

$$\#2: \frac{1}{2} \cdot a \cdot \sqrt{2} \quad \text{User}$$

$$\#3: c^2 = \left( a - \frac{1}{2} \cdot a \cdot \sqrt{2} \right)^2 + \left( \frac{1}{2} \cdot a \cdot \sqrt{2} \right)^2 \quad \text{User}$$

$$\#4: [c = a \cdot \sqrt{2 - \sqrt{2}}, c = -a \cdot \sqrt{2 - \sqrt{2}}] \quad 0.0s \text{ Solve}(\#3, c)$$