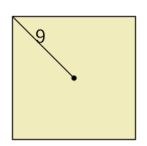


mobius

Pythagoras in Squares - Center Hypotenuse to Area Equation



1

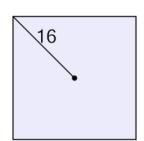


Area = ?

Find the area of the square, given a diagonal to the center of length 9

$$\begin{bmatrix} \frac{1}{4} \cdot \sqrt{\frac{9^2}{\sqrt{2}}} \end{bmatrix}^{B} \mathbf{2} \cdot \mathbf{9}^{2}$$

2

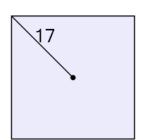


Area = ?

Find the area of the square, given a diagonal to the center of length 16

$$\left| \frac{16^2}{4 \cdot \sqrt{\frac{16^2}{\sqrt{2}}}} \right|^{8} \cdot 16^{2}$$

3

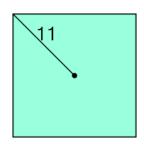


Area = ?

Find the area of the square, given a diagonal to the center of length 17

$$\begin{bmatrix} \frac{17^2}{4} & \frac{17^2}{2} \\ \frac{1}{2} & \frac{17^2}{2} \end{bmatrix}$$

4

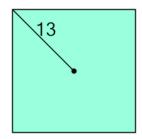


Area = ?

Find the area of the square, given a diagonal to the center of length 11

$$\left| egin{array}{c} oldsymbol{^{\mathsf{A}}} & \mathbf{1} \mathbf{1}^2 \end{array}
ight|^{\mathsf{B}} oldsymbol{^{\mathsf{B}}} \sqrt{rac{11^2}{\sqrt{2}}}$$

5

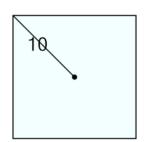


Area = ?

Find the area of the square, given a diagonal to the center of length 13

$$\left| \frac{13^2}{4} \cdot \sqrt{\frac{13^2}{\sqrt{2}}} \right|^{8} 2 \cdot 13^{2}$$

6

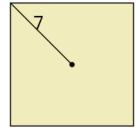


Area = ?

Find the area of the square, given a diagonal to the center of length 10

$$\begin{vmatrix} \frac{10^2}{4} \cdot \sqrt{\frac{10^2}{\sqrt{2}}} \end{vmatrix}^{B} \cdot 10^{2}$$

7

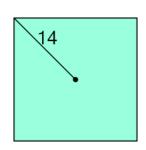


Area = ?

Find the area of the square, given a diagonal to the center of length 7

$$\begin{bmatrix} \frac{A}{4} \cdot \sqrt{\frac{7^2}{\sqrt{2}}} \end{bmatrix} \frac{B}{2} \cdot 7^2$$

8



Area = ?

Find the area of the square, given a diagonal to the center of length 14

$$\begin{vmatrix} \frac{14^2}{4} \cdot \sqrt{\frac{14^2}{\sqrt{2}}} \end{vmatrix}^{B} \cdot \mathbf{14}^{2}$$