

## Special Right Triangles

Complete the table concerning the relationships between sides in special right triangles.

| 45-45-90 Triangle     |                        |
|-----------------------|------------------------|
| Leg $\rightarrow$ leg | $= 1$                  |
| Leg $\rightarrow$ hyp | $= \sqrt{2}$           |
| Hyp $\rightarrow$ leg | $= \frac{1}{\sqrt{2}}$ |

| 30-60-90 Triangle        |                        |
|--------------------------|------------------------|
| Short $\rightarrow$ long | $= \sqrt{3}$           |
| Long $\rightarrow$ short | $= \frac{1}{\sqrt{3}}$ |
| Short $\rightarrow$ hyp  | $= 2$                  |
| Hyp $\rightarrow$ short  | $= \frac{1}{2}$        |

2. Find the indicated side of each special right triangle.

a.



$$\frac{10}{\sqrt{2}} = \frac{10\sqrt{2}}{2} = 5\sqrt{2}$$

b.

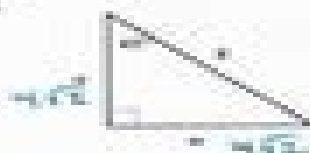


$$7\sqrt{3} \cdot \sqrt{3} = 7 \cdot 3 = 21$$

c.



d.



$$\frac{8}{\sqrt{2}} = \frac{8\sqrt{2}}{2} = 4\sqrt{2}$$

e.



$$3\sqrt{3} \cdot \sqrt{3} = 9$$

$$9\sqrt{2} \cdot \sqrt{2} = 18$$

f. Equilateral triangles are used to support a bridge. If each side is 8m, what is the height of the triangle?



g. A square room has diagonal length 300 feet. What is the length of each side of the room?



$$\frac{300}{\sqrt{2}} = \frac{300\sqrt{2}}{2}$$

$$= 150\sqrt{2} \approx 212$$

# Geometry Sol Study Guide

**Emilie Sanchez**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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