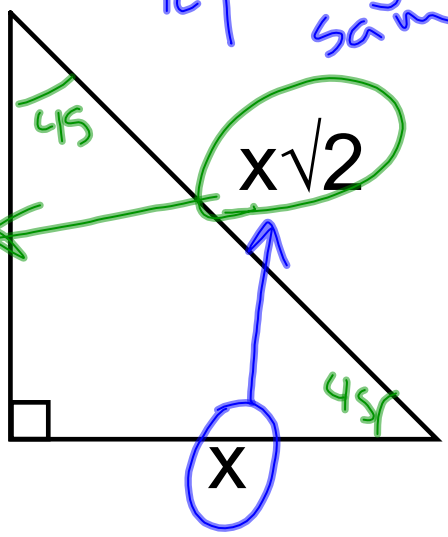
Chapter 7.4: Special Right Triangles

45-45-90

leg → leg same



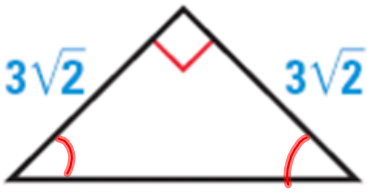
leg → hyp
multiply by $\sqrt{2}$

hyp → leg
divide by $\sqrt{2}$

leg → hyp

$x = 8 \cdot \sqrt{2}$

$8\sqrt{2}$

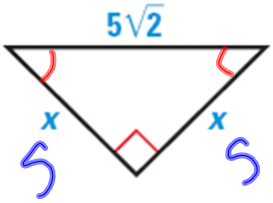


leg → hyp

$3\sqrt{2} \cdot \sqrt{2}$

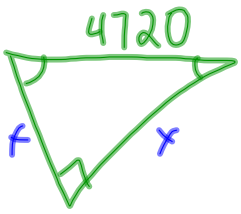
$3\sqrt{4}$

$3 \cdot 2 = 6$



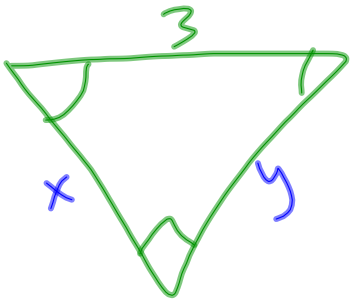
hyp → leg ÷√2

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



hyp → leg

$\frac{4720}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{4720\sqrt{2}}{2} = 2360\sqrt{2}$



hyp → leg ÷√2

$\frac{3}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{3\sqrt{2}}{2} = x$

$y = \frac{3\sqrt{2}}{2}$

Triangle WXY is a right triangle. Find the length of $\overline{WX}$.

Ⓐ 50 cm

Ⓑ $25\sqrt{2}$ cm

Ⓒ 25 cm

Ⓓ $\frac{25\sqrt{2}}{2}$ cm