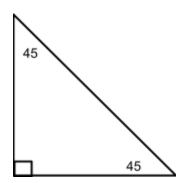
7.2 Notes Special Right Triangles 45°/45°/90°

An Isosceles Right Triangle has 2 congruent legs, 2 congruent angles (45° each), and one right angle.

<u>45 – 45 – 90 Triangle Theorem</u>

In a 45° – 45° – 90° triangle, both legs are congruent and the length of the hypotenuse is $\sqrt{2}$ times the length of the leg.

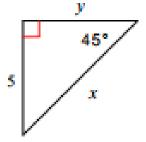


The legs will be the same.

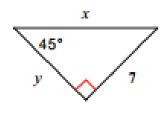
If you know a leg and want to find the hypotenuse, multiply by $\sqrt{2}$.

If you know the hypotenuse and want to find a leg, divide by $\sqrt{2}$.

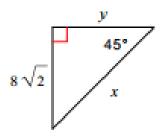
1



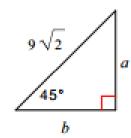
2.



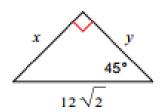
3.



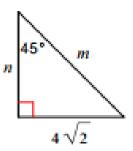
4.



5.



6.

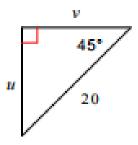


Dividing Radicals Practice

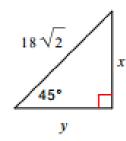
7.
$$\underline{5}$$
 $\sqrt{3}$

8.
$$\underline{6}\sqrt{2}$$

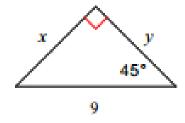
9.



10.



11.



12.

