# 9-3 Special Right Triangles

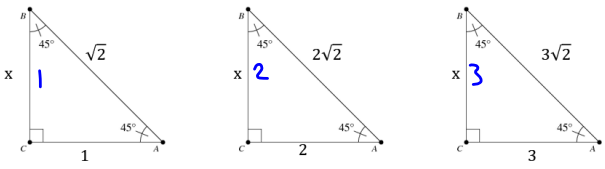
I know the relationships between sides in special right triangles.
I can use special right triangles to figure out side lengths.

Oct 21-10:10 AM

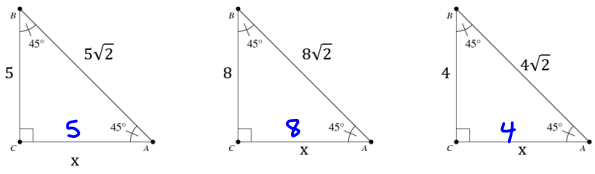
**Discovering Special Right Triangles Task**

*Use the Pythagorean Theorem to find the missing side length of each 45-45-90 degree triangle. If you see a pattern, use it.*

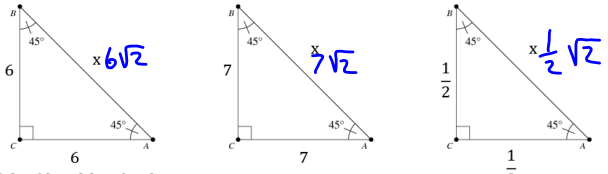
1.




2.

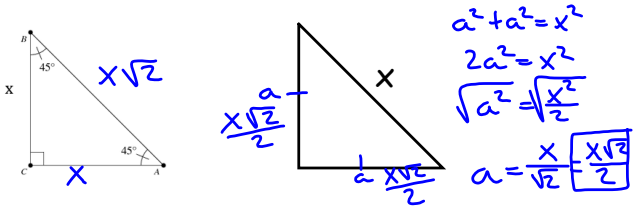



3.

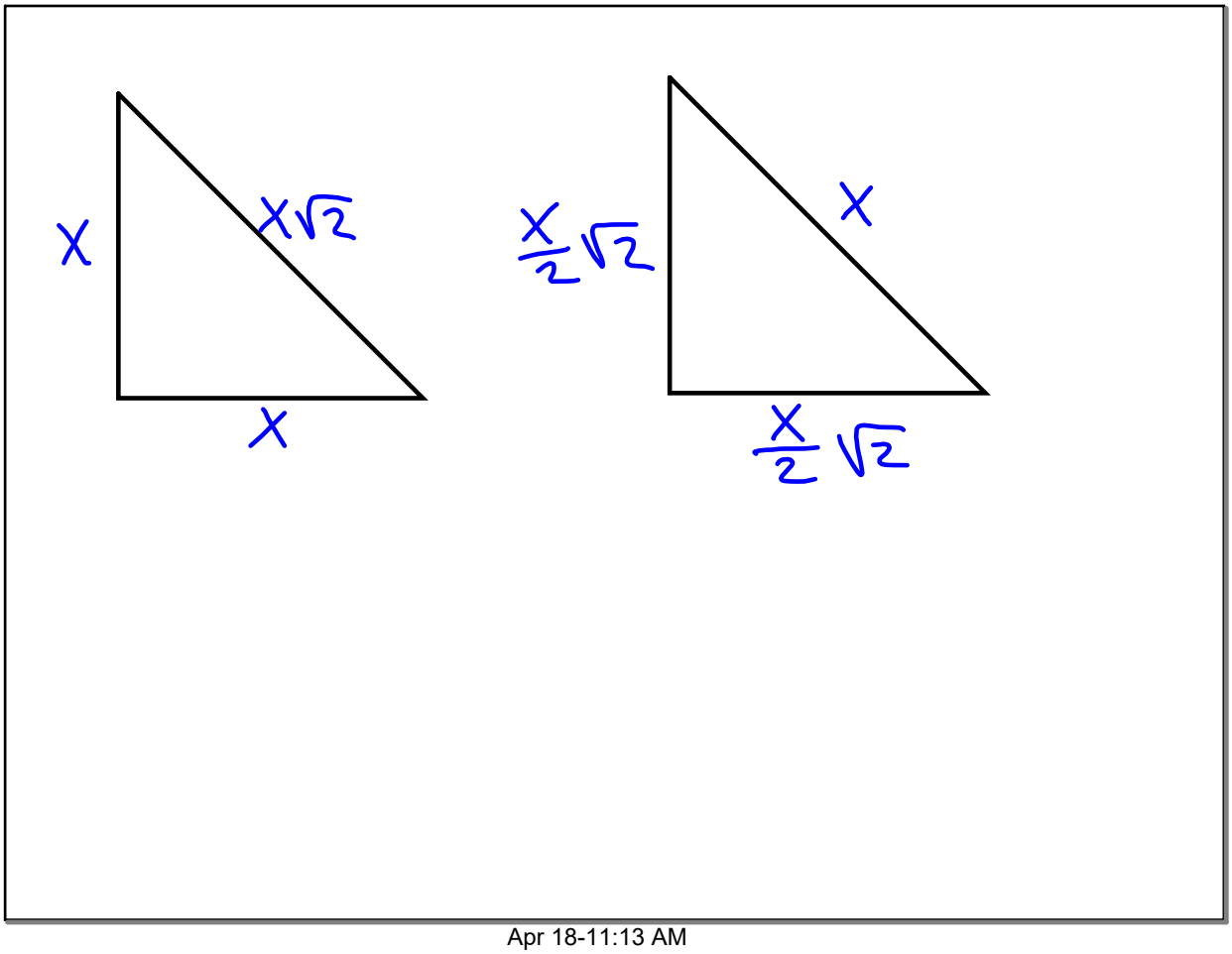



**Label the sides of the triangle.**

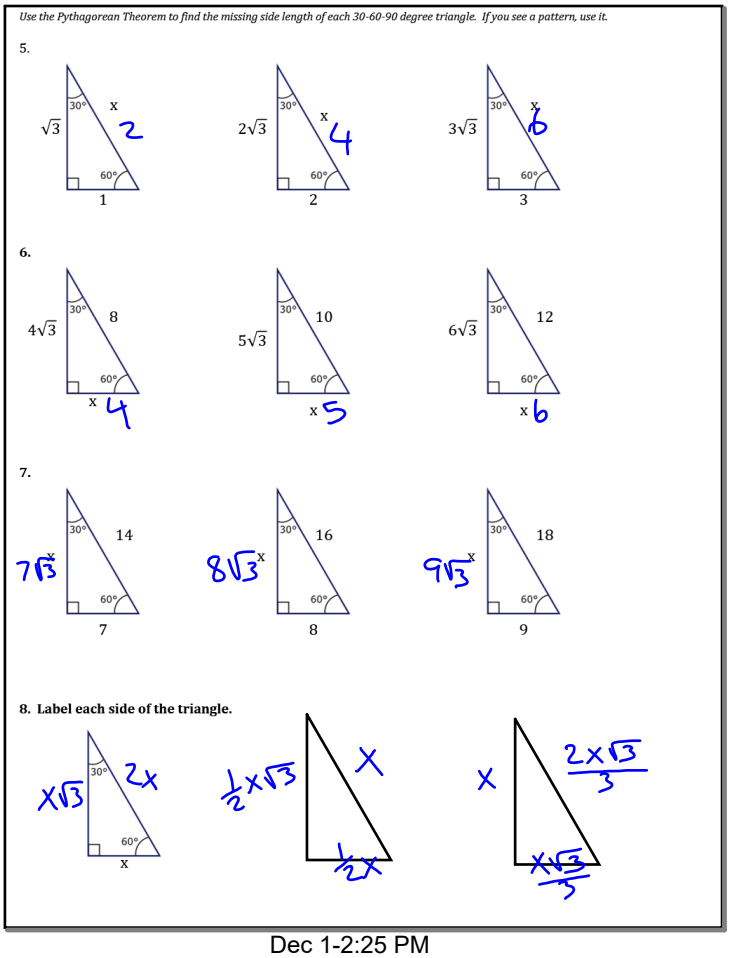
4.



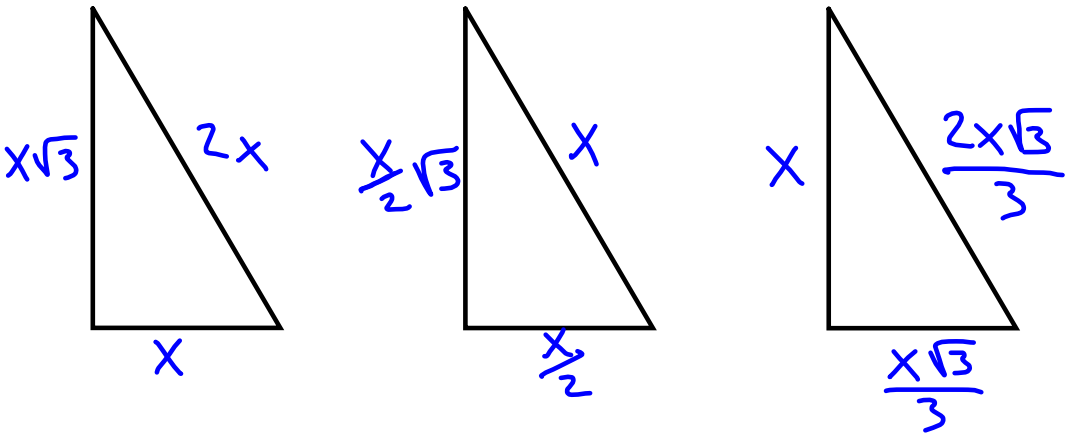

Dec 1-2:24 PM




Apr 18-11:13 AM

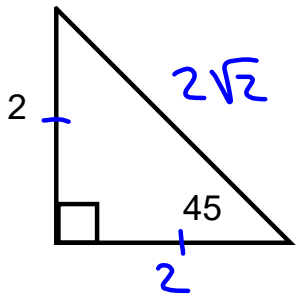


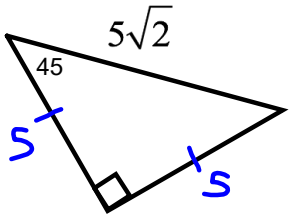

Dec 1-2:25 PM

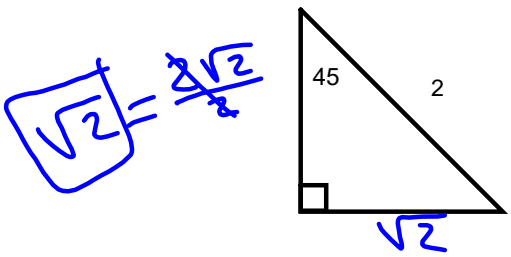



Apr 18-11:14 AM

Use the patterns you discovered to find the missing side lengths of each special right triangle.

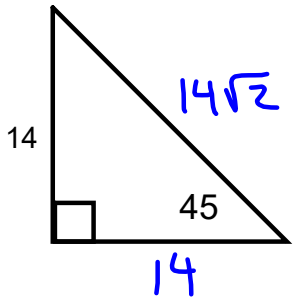


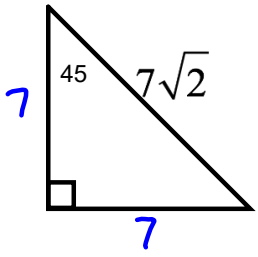

Nov 8-11:28 AM

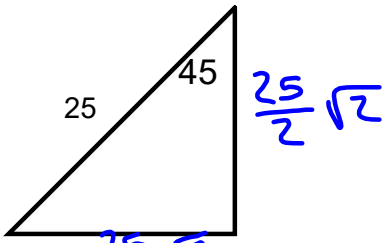
Use the patterns you discovered to find the missing side lengths of each special right triangle.




$14\sqrt{2}$

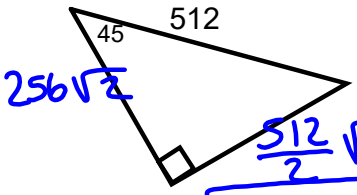
14




$\frac{25}{2}\sqrt{2}$

$\frac{25}{2}\sqrt{2}$



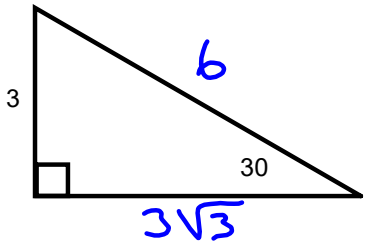

$256\sqrt{2}$

$\frac{512}{2}\sqrt{2}$

$= 256\sqrt{2}$

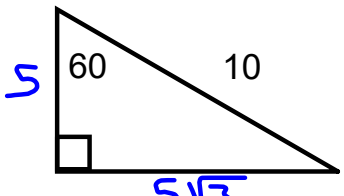
Nov 8-11:28 AM

Use the patterns you discovered to find the missing side lengths of each special right triangle.

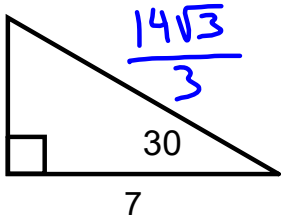



6

$3\sqrt{3}$

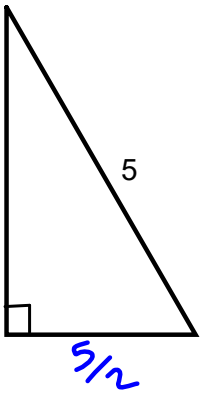



$5\sqrt{3}$




$\frac{14\sqrt{3}}{3}$

$\frac{7\sqrt{3}}{3}$

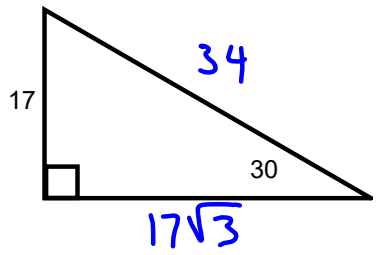


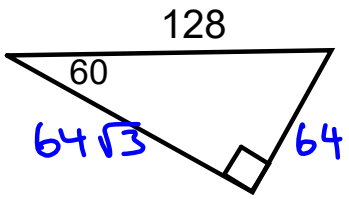

$\frac{5}{2}\sqrt{3}$

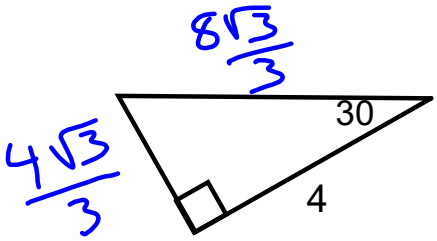
$\frac{5}{2}$

Nov 8-11:39 AM

Use the patterns you discovered to find the missing side lengths of each special right triangle.




Nov 8-11:39 AM

Apr 18-11:15 AM