## Special Right Triangles

Directions: With your group, you will be completing the three tasks.
The first two tasks refer to the set of triangles in the box below. .

## Task \#1

In the box BELOW there are 9 different triangles that are missing angles or sides. Use Pythagorean theorem and what you know about the angles of a triangle to find the missing sides and angles.


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9.7 Notes
9.7 Special Right

Task \#2
Now that we have discovered the relationships lets label the ratios of the sides of these special right triangles!


Task \#3- PRACTICE! remaining sides.


$12 \sqrt{2}$


$$
x=4 \sqrt{2}
$$

$$
\sqrt{15}=4 \sqrt{60^{\circ}}
$$



Find the length of the diagonal of the square if the side lengths are 4.


Find the height of an equilateral triangle that has sides of 6 .


Special Right Triangles Regular hex side length 6


