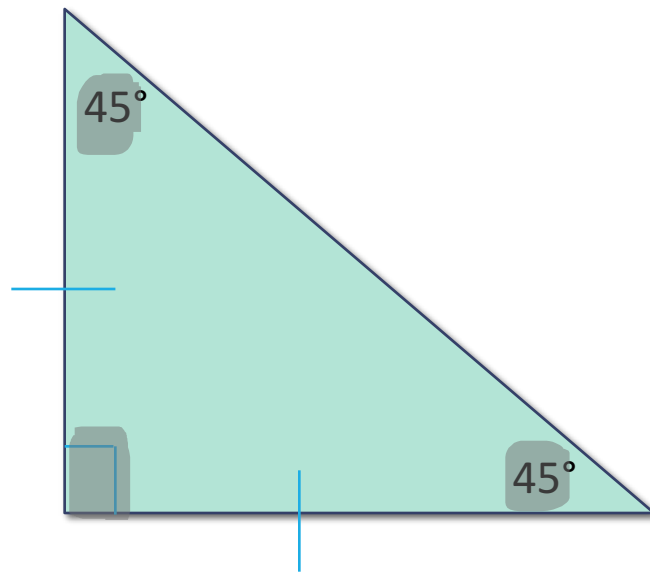


# Check Homework

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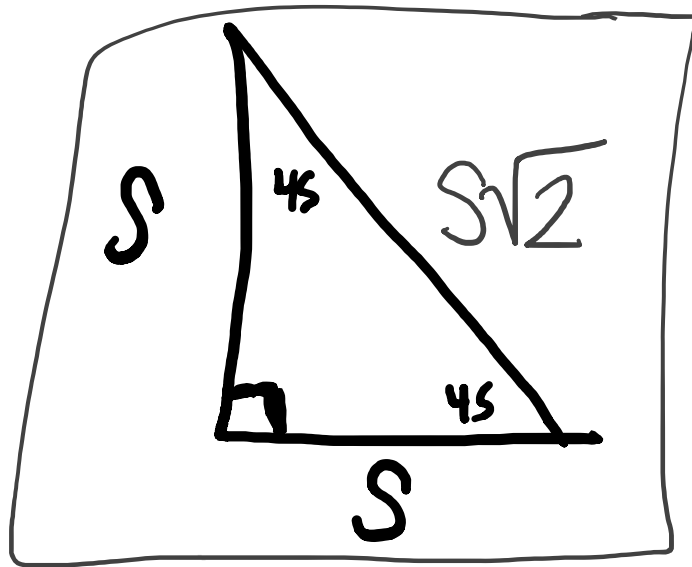
What would an isosceles right triangle look like?

What would its angle measures be?



An Isosceles right triangle is also called a 45-45-90 triangle.

# Isosceles Right $\triangle$

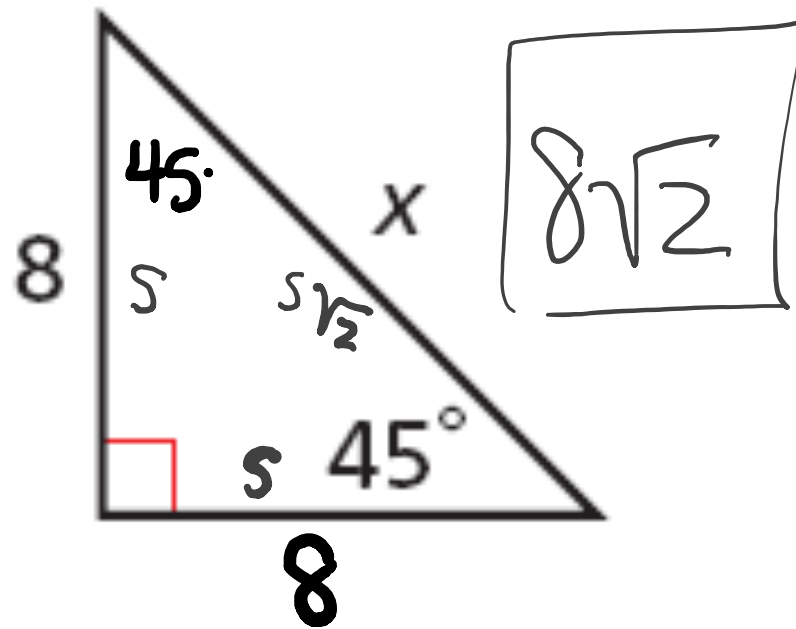


$$s^2 + s^2 = c^2$$

$$\sqrt{2s^2} = \sqrt{c^2}$$

$$s\sqrt{2} = c$$

Find the value of  $x$ . Give your answer in simplest radical form.

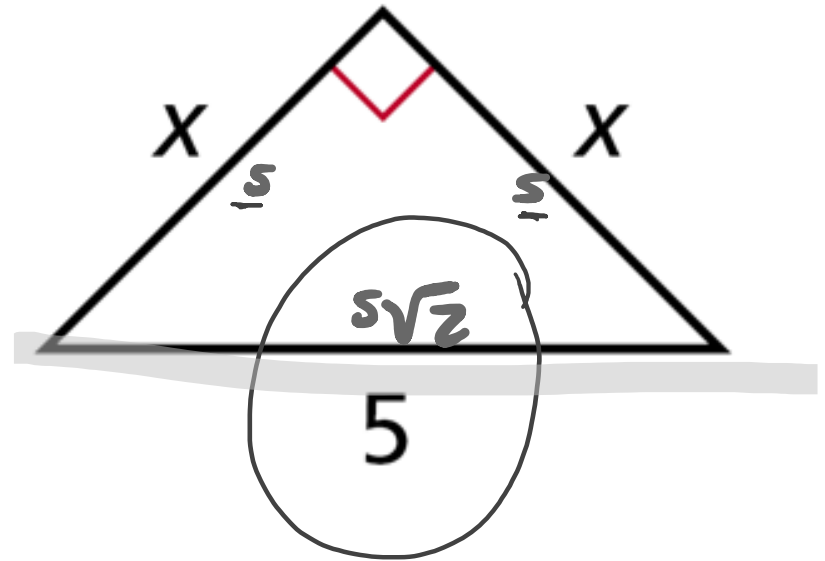


Find the value of  $x$ . Give your answer in simplest radical form.

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

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

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

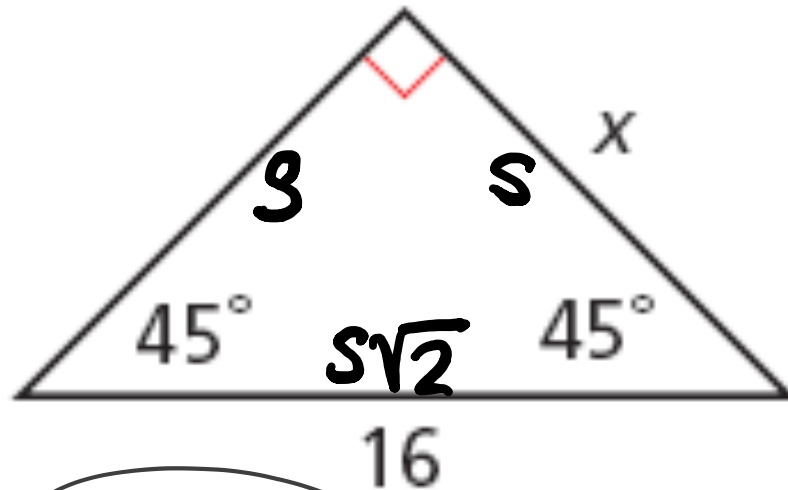


Find the value of  $x$ . Give your answer in simplest radical form.

$$16 = s\sqrt{2}$$

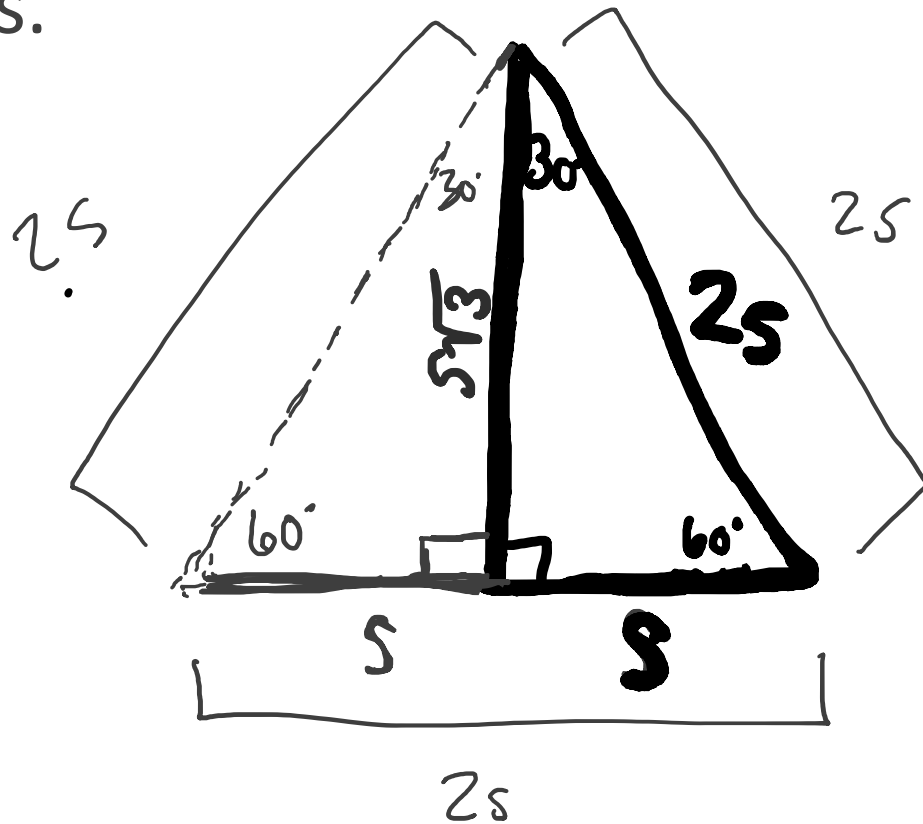
$$\frac{16}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = s$$

$$\frac{16\sqrt{2}}{2} = s$$



$$s = 8\sqrt{2}$$

A  $30^\circ-60^\circ-90^\circ$  triangle is another special right triangle. You can use an equilateral triangle to find a relationship between its side lengths.

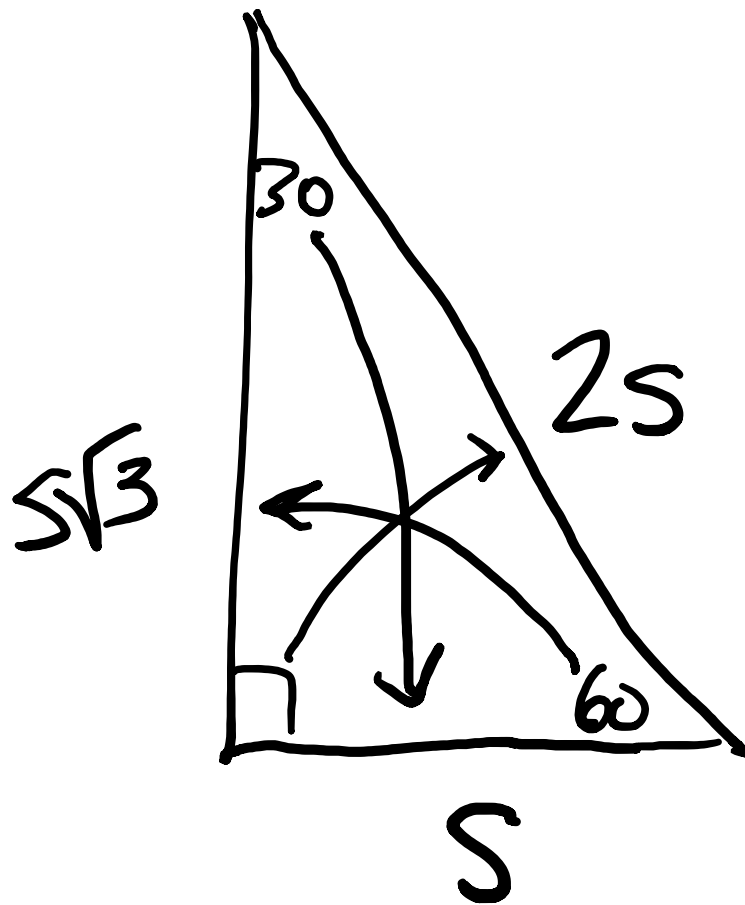


$$s^2 + x^2 = (2s)^2$$

$$s^2 + x^2 = 4s^2$$

$$\sqrt{x^2} = \sqrt{3s^2}$$

$$x = s\sqrt{3}$$



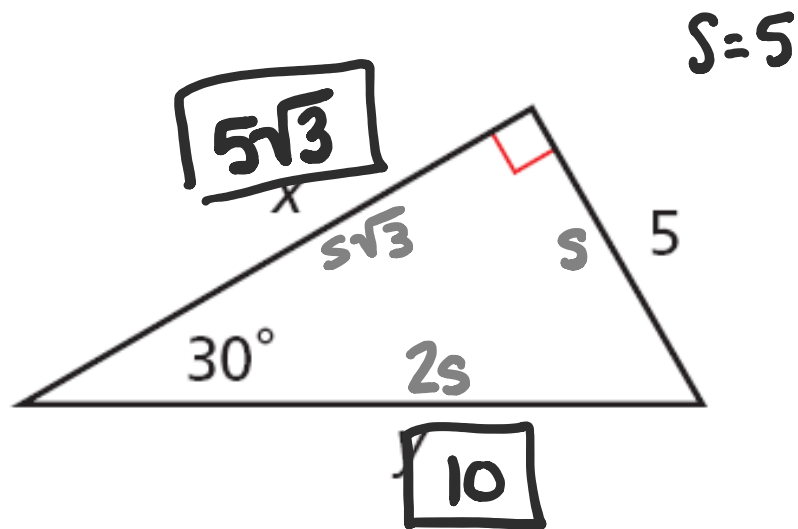
across from  $30^\circ$   
is  $s$

across from  $60^\circ$   
is  $s\sqrt{3}$

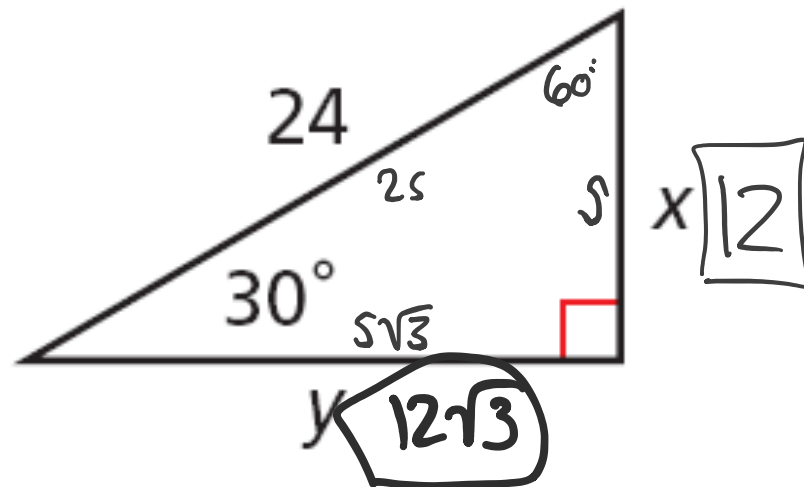
across from  $90^\circ$   
is  $2s$



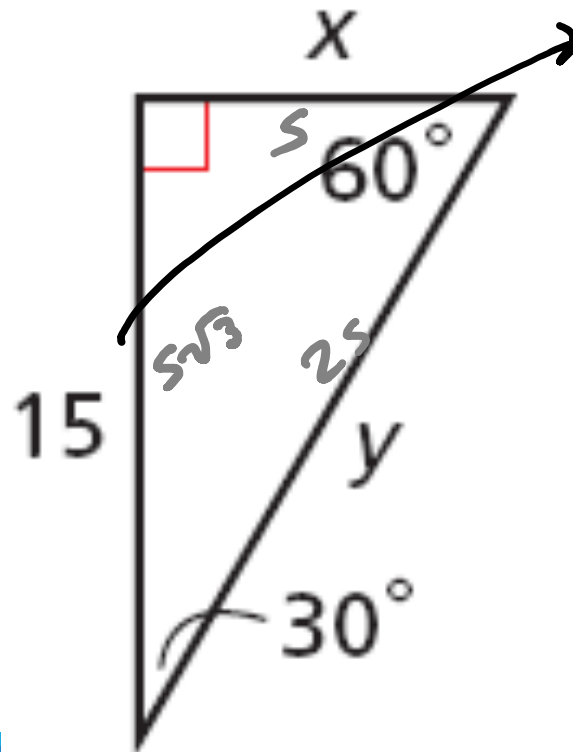
Find the values of  $x$  and  $y$ . Give your answers in simplest radical form.



Find the values of  $x$  and  $y$ .  
Give your answers in  
simplest radical form.



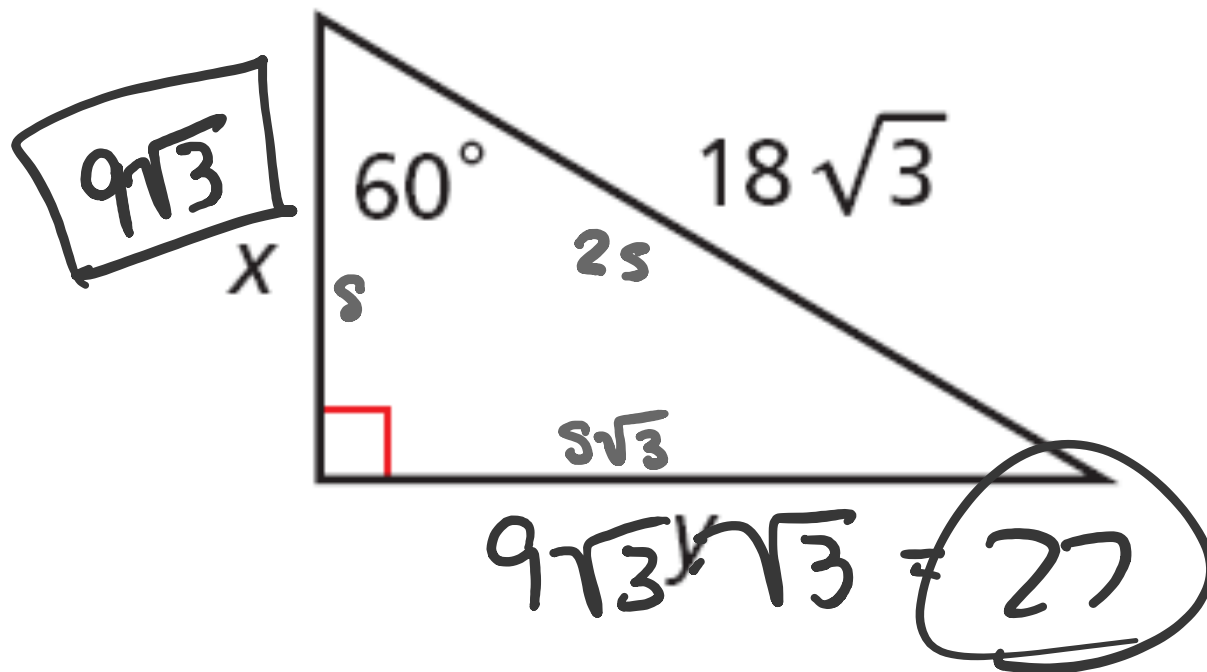
Find the values of  $x$  and  $y$ . Give your answers in simplest radical form.



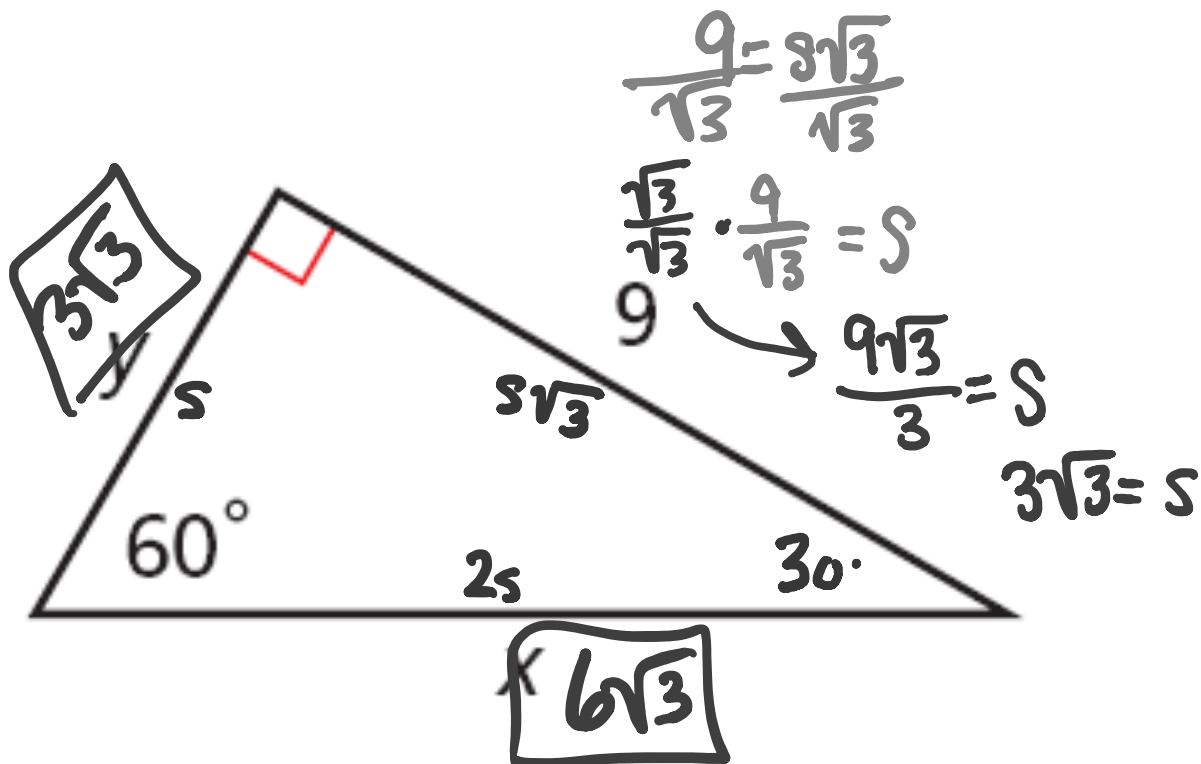
Find the values of  $x$  and  $y$ . Give your answers in simplest radical form.

$$2s = 18\sqrt{3}$$

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



Find the values of  $x$  and  $y$ . Give your answers in simplest radical form.



# Homework

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Worksheet