

Ch 10. 3: 30° 60° 90° Triangles

Ex1) What do you notice about all these triangles?

What do you notice in all of these triangles?

Triangle 1	Triangle 2	Triangle 3
short leg:	short leg:	short leg:
longer leg:	longer leg:	longer leg:
hypotenuse:	hypotenuse:	hypotenuse:

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Formulas for 30°, 60°, 90° Right triangles:

hypotenuse = shorter leg x 2

longer leg = shorter leg x  $\sqrt{3}$

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Ex1a) Find x and y:

Ex1b)

Try 1)

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Ex2a) Find x and y:

Ex2b)

Ex2c)

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Try #2.

Try #3.

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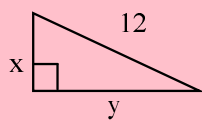
Ex3a) Find x and y:

Ex3b)

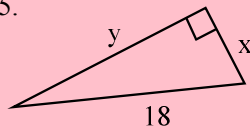
Ex2c)

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Try #4.



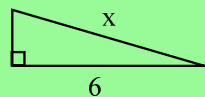
Try #5.



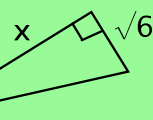
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Ex4) Find x.

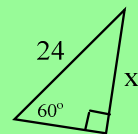
4a)



Ex4b).



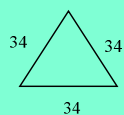
Ex4c).



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Ex5) Find the area of the triangle:

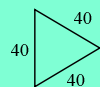
a)



b)



Try #6.



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