

Day 5: Tangent Lines & Pythagorean Theorem

Date _____

1) There is a great property of lines that are tangent to a circle. It is that a tangent line is _____ to the _____ of the circle.

Because it is _____, we can make a _____ triangle.

Right triangles have great properties. One very known theorem we use with right triangles is the _____ Theorem.

What is the Pythagorean Theorem? _____

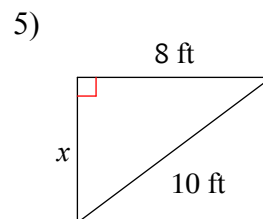
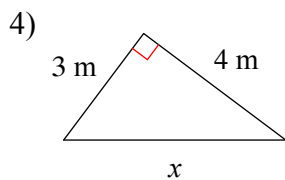
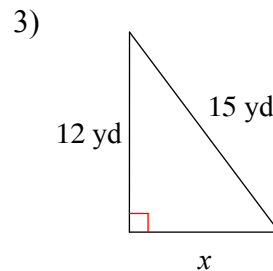
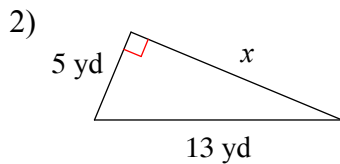
Why is it used?

If we know the circle is tangent, then we can find missing sides.

If we know all the sides, then we can prove the line is tangent.

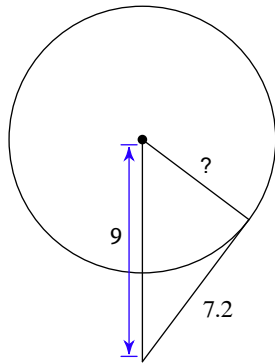
First, let's review using the pythagorean theorem.

Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

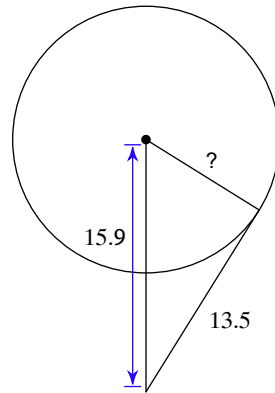


Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

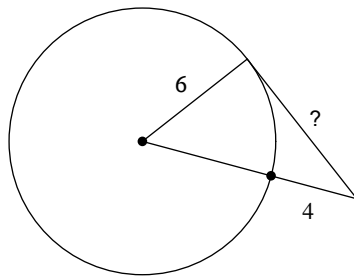
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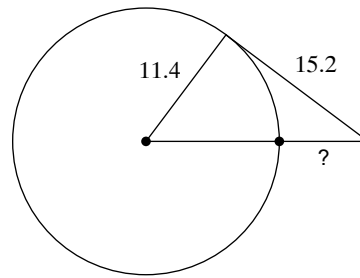
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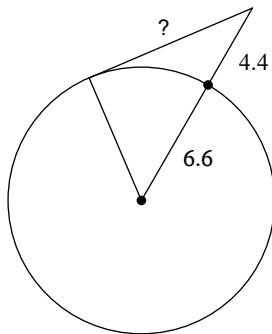
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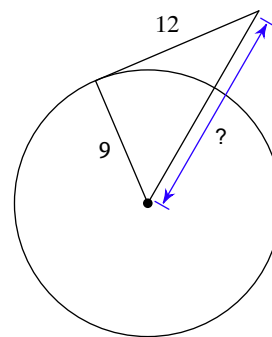
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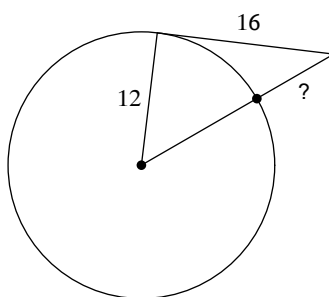
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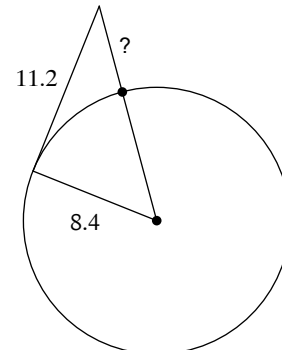
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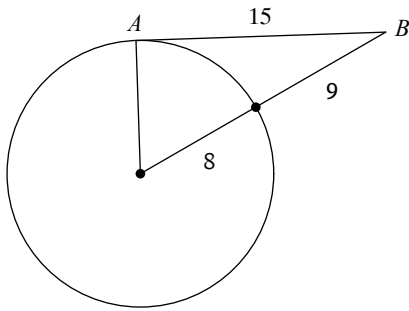


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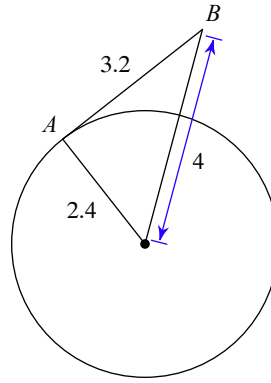


Determine if line AB is tangent to the circle.

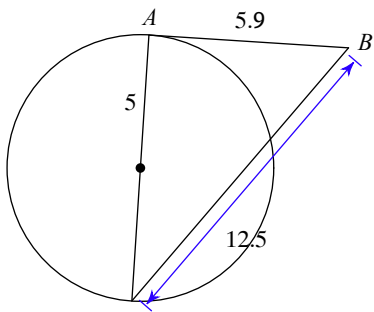
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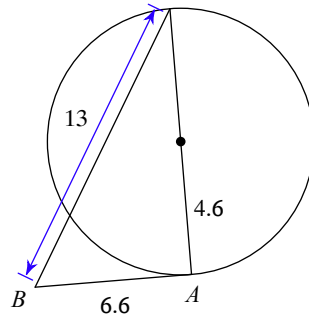
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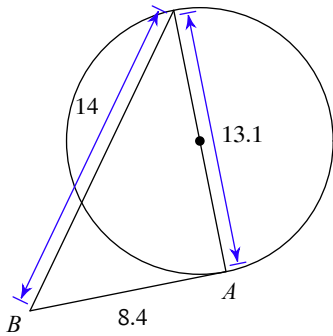
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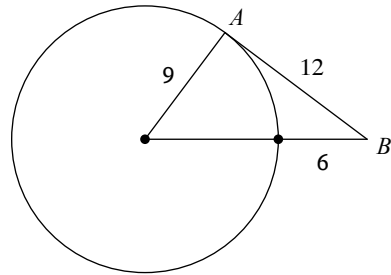
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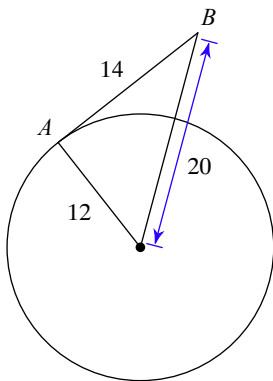
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19)



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