

Tangents and Party Hats :)

Welcome back.

**Warm up**

Use Pythagorean Theorem to find the missing side.

Round to the nearest tenths.

1)

2)

3)

### TANGENTS

A line is tangent to the circle only if it is perpendicular to the radius drawn to the point of tangency

Is AD tangent or not tangent?

Is AB tangent or not tangent?

Use Pythagorean Theorem to find out.

Is AB tangent or not tangent?

Use Pythagorean Theorem to find out.

Solve for x.

BC is a radius of Circle C  
AB is tangent to Circle C

Tangents and Party Hats :)

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Party Hat Problems  
(Tangent/Tangent)

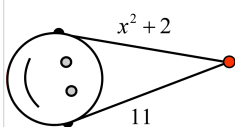
$RS \cong TS$

If two segments from the same exterior point are tangent to a circle, then they are congruent.

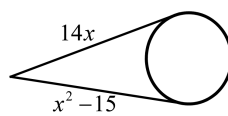
Party hat problems!

## Tangents and Party Hats :)

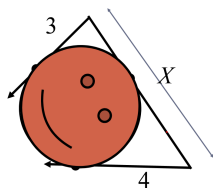
Solve for x



Solve for x



Solve for x



Find NP

