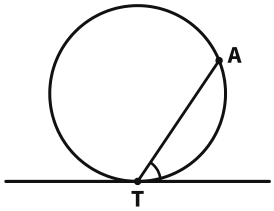
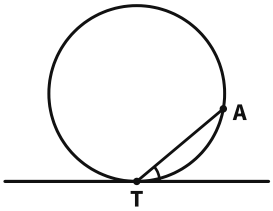
Circle theorems: alternate segment *lesson handout*

Measure it

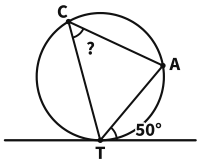
Mark a point C on the circle on the other side of TA. Draw triangle TCA. Measure angle TCA and the marked angle.





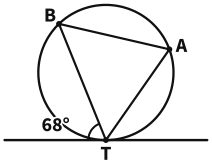
Estimate

The line touches the circle at T. Estimate the angle at C.



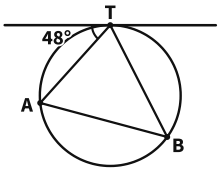
Part 1: We do

The line is a tangent at T. Which angle in triangle TAB is also 68°?



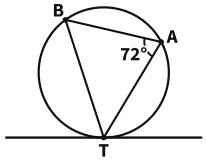
Part 1: You do

The line is a tangent at T. Which angle in triangle TAB is also 48°?



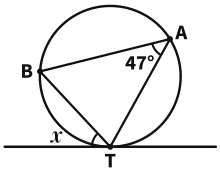
Part 1: You do

The line is a tangent at T. Which angle at the tangent is also 72°?



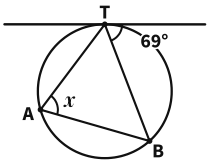
Part 2: We do

The line is a tangent at T. Find x. Give a reason.



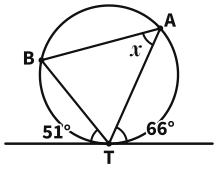
Part 2: You do

The line is a tangent at T. Find x. Give a reason.



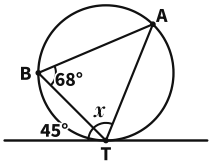
Part 2: You do

The line is a tangent at T. Find x. Give a reason.



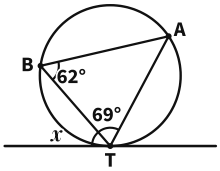
Part 3: We do

The line is a tangent at T. Find angle x.



Part 3: You do

The line is a tangent at T. Find angle x.



Part 3: You do

The line is a tangent at T. TA = TB. Find angle x.

