## Circle Theorem Proofs

## REVISE THIS TOPIC

## CHECK YOUR ANSWERS

1

$A, B$ and $C$ are points on the circumference of a circle, centre $O$. $A O B$ is a diameter of the circle.

Prove that angle $A C B=90^{\circ}$
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2

$A, B$ and $C$ are points on the circumference of a circle, centre $O$.
Prove that angle $A O C=2 \times$ angle $A B C$
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3

$A, B, C$ and $D$ are points on the circumference of a circle, centre $O$.
Prove that angle $A B C+$ angle $C D A=180^{\circ}$
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4

$A, B, C$ and $D$ are points on the circumference of a circle, centre $O$.
Prove that angle $A B C=$ angle $A C D$
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5

$A, B$ and $C$ are points on the circumference of a circle, centre $O$. $B T$ is the tangent to the circle at $B$.

Prove that angle $C A B=$ angle $C B T$
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