Practice worksheet | Geometry and proof

Angles at the centre and circumference

Name: _____ Date: _____

6 questions | 13 marks

1. Minor central angle AOB is 84°. C lies on the major arc AB. Find $\angle ACB$. [2 marks]

2. $\angle ACB = 37^\circ$ subtends minor arc AB. Find the corresponding minor central angle. [2 marks]

3. Minor central angle AOB is 120°. D lies on the minor arc AB. Find $\angle ADB$. [2 marks]

4. C and D lie on the same arc of chord AB. $\angle ACB = 46^\circ$. Find $\angle ADB$. [2 marks]

5. AB is a diameter of a circle and C is another point on the circle. $\angle CAB = 32^\circ$. Find $\angle ABC$. [2 marks]

6. An inscribed angle subtends a chord and is 90°. Explain why the chord is a diameter. [3 marks]