Practice worksheet | Proof and circle geometry

Chords and tangents

Name: _____ Date: _____

6 questions | 14 marks

1. A radius meets a tangent at its point of contact. Find the angle between them. [2 marks]

2. A radius-5 cm circle has a chord 3 cm from its centre. Find the chord length. [2 marks]

3. Two tangent lengths from P are $2x+7$ and $4x-5$. Find x and their common length. [3 marks]

4. A tangent and chord AB make a 52° angle. C is on the alternate segment. Find angle ACB. [2 marks]

5. Two chords in the same circle are each 16 cm long. One is 6 cm from the centre. How far is the other from the centre? Explain. [2 marks]

6. A tangent PT is 24 cm long and OP is 25 cm, where O is the circle centre. Find the radius OT. [3 marks]