

# G206 Circle theorems

- ①  $28^\circ$
- ②  $64^\circ$
- ③ a)  $32^\circ$   
b) i)  $122^\circ$   
ii) opposite angles in a cyclic quadrilateral sum to  $180^\circ$
- ④ a) i)  $41^\circ$   
ii) angles in the same segment are equal  
b) i)  $75^\circ$   
ii)  $75^\circ \neq 2 \times 41^\circ$
- ⑤  $30^\circ$  with reasons
- ⑥  $20^\circ$
- ⑦ a)  $50^\circ$   
b)  $70^\circ$
- ⑧  $75^\circ$  with reasons
- ⑨  $142^\circ$  with reasons
- ⑩ proof
- ⑪  $63^\circ$
- ⑫ a) i)  $54^\circ$   
ii) angle between radius and tangent is  $90^\circ$   
b)  $83^\circ$
- ⑬ a)  $20^\circ$   
b)  $60^\circ$
- ⑭ a)  $79^\circ$   
b)  $76^\circ$
- ⑮ proof

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- ①
- ②
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- ⑬
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