



NOT TO  
SCALE

$A$ ,  $B$  and  $C$  are three points on a circle, centre  $O$ .  
 $DE$  is a tangent to the circle at  $A$ .  
 Angle  $ACO = 35^\circ$  and angle  $BCO = 40^\circ$ .

Find

(a) angle  $AOC$

Angle  $AOC = \dots\dots\dots$  [1]

(b) angle  $ABC$

Angle  $ABC = \dots\dots\dots$  [1]

(c) angle  $DAC$

Angle  $DAC = \dots\dots\dots$  [1]

(d) angle  $OAB$ .

Angle  $OAB = \dots\dots\dots$  [1]