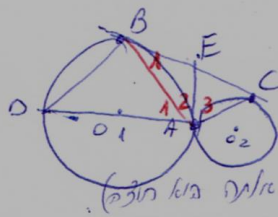


1.49
3



$\angle A_2 = \alpha$ (proof) \underline{c}
 $BE = AE = EC$

(proof) $\angle DBA = 90^\circ$
 \Downarrow
 $BD \parallel AC$

(proof) $\angle DAE = 90^\circ$ \underline{p}

$$\angle A_1 = 90 - \angle A_2 = \angle A_3$$

(S.S) $\triangle ABD \sim \triangle CAB$ $\leftarrow \angle DBA = 90^\circ = \angle CAB$ \underline{e}
 $\angle A = \angle B$ (proof)