



1.1 ③ (S.S.S)  $\triangle BCQ \cong \triangle DAS \Rightarrow DS = QB$   
 (S.S.S)  $\triangle DRC \cong \triangle BPA \Rightarrow BR = PB$  }  $\triangle DSR \cong \triangle BPR$   
 $\Downarrow$   
 $SR = PR$

$\triangle ROC \cong \triangle SPA$  }  $AS = QC$   
 $AP = RC$   
 $\Downarrow$   
 $SP = RQ$

SPQR  
 מרובע

④ ABCD מרובע עם זוויות  $\angle A$  ו- $\angle C$  שווים

$AO = CO$   
 $AS = QC$   
 $\angle SAO = \angle OCQ$  }  $\triangle AOS \cong \triangle COQ$   
 $\Downarrow$   
 $OQ = OS$

$\angle O_1 + \angle O_2 + \angle O_3 + \angle O_4 = \angle COA = 180^\circ$

$\angle O_1 = \angle O_5$  (נדיאנל)

$\Rightarrow \angle O_2 + \angle O_3 + \angle O_4 + \angle O_5 = 180 = \angle SOQ$   
 . זווית  $\angle O$  ! זווית  $\angle SOQ$  ←

⑤  $\triangle BCQ, \triangle APB, \triangle ASD, \triangle DRC$   
 ( $120^\circ, 30^\circ, 30^\circ$ ) זוויות

$BR = RC = CQ = QB = PB = AP = AS = SD$

$\Rightarrow \triangle DSR \cong \triangle QRC \cong \triangle BPR \cong \triangle ASP$

$\Rightarrow SR = RQ = PQ = SP$

$\Rightarrow$  מרובע SPQR