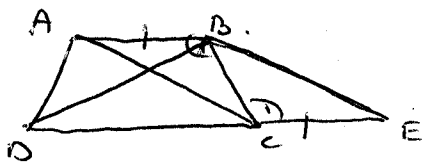


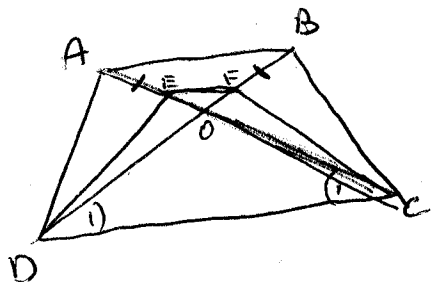
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(ע"ש שז"ג) $AC = BD$
 (מ"מ/מ"מ) $\angle C_1 = \angle A_1 B C$
 (3.3.3) $\triangle ABC \cong \triangle EBC$

\Downarrow
 $AC = BE$
 \Downarrow
 $BD = BE$

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(ע"ש שז"ג) $AC = BD$
 (מ"מ) $AE = BF$
 \Downarrow
 $AC - AE = BD - BF$
 (*) $EC = FD$

(3.3.3) $\triangle ADC \cong \triangle BCD$

$DO = \alpha$ ע"ש ע"ש $\triangle DOC \leftarrow \angle C_1 = \angle D_1, \overline{DO} \perp \alpha$

(DOC ע"ש ע"ש) $\angle DOC = 180 - 2\alpha$

(מ"מ/מ"מ) $\angle EOF = \angle DOC = 180 - 2\alpha$

(ע"ש שז"ג) $AC = BD$
 (מ"מ/מ"מ) $OC = OD$
 (מ"מ) $AE = FB$

$$AC - OC - AE = BD - OD - FB$$

$$EO = FO$$

" ע"ש ע"ש $\triangle EOF$

$$\angle EOF = \angle EFO$$

$$\triangle EOF: \angle OEF + \angle EFO + \angle EOF = 180$$

$$2 \times \angle OEF + 180 - 2\alpha = 180$$

$$2 \times \angle OEF = 2\alpha$$

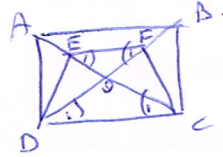
$$\angle OEF = \alpha = \angle OEF$$

$$\angle OEF = \angle C_1$$

\Downarrow
 (מ"מ/מ"מ) $EF \parallel DC$

" ע"ש ע"ש ע"ש ע"ש $\angle C_1 = \angle EFO$ (*) \Rightarrow ע"ש ע"ש ע"ש ע"ש

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(139)



$DO = CO$ (משפט 13.1, משפט 13.2)
 (משפט 13.1, משפט 13.2)
 (משפט 13.1)

\downarrow
 $\angle C_1 = \angle D_1$

\downarrow
 $\angle E_1 = \angle F_1$

\downarrow
 $EO = OF$

$DO + OF = CO + OE$

\downarrow
 $EC = DF$

משפט 13.1, משפט 13.2
 משפט 13.1, משפט 13.2