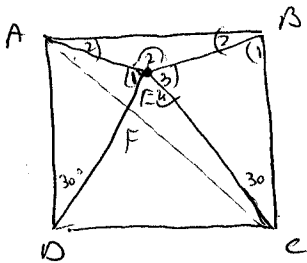


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(3.5.3) $\triangle AED \cong \triangle BEC$

(18/3 מורה) $DE = EC$

(8/7) $DC \perp BC$

↓

$EC = BC$

(11/3 מורה) $\angle ECB = 30$

↓

$\angle B_1 = 75 = \angle BEC$

↓

$\angle B_2 = 15$

(מחזקת) $EB = AE$

(עיון ABE) $\angle A_2 = 15 \Rightarrow \angle AEB = 180 - 15 - 15 = 150$

(מחזקת) $\angle BAC = 45$

$\angle EAF = \angle BAC - \angle BAE = 45 - 15 = 30$

$\angle E_1 = \angle AEF$

$\angle E_3 = \angle BEC$; מורה

$\angle E_2 = \angle AEB$

$\angle E_4 = \angle CED$

$\angle E_4 = 60$ (מורה 2/18)

(מורה 1/10) $\angle E_2 = 150$

(180 - מורה) $\angle E_3 = 75 \leftarrow \angle BCE = 30 : \triangle BEC$
 $\angle B_1 = 75$

$\angle E_1 = 360 - \angle E_2 - \angle E_3 - \angle E_4 = 360 - 150 - 75 - 60 = 75$

(180 - מורה) $\angle AFE = 75 \leftarrow \angle EAF = 30 : \triangle AEF$
 $\angle E_1 = 75$

מורה AFE

$AF = AE$

(3.5.3) $\triangle ECB \cong \triangle FDB$

$\angle C_1 = \angle D = \alpha$

מורה

$\angle E_1 = 180 - \angle B - \angle C_1$

: $\triangle EBC$

$\angle E_1 = 180 - 90 - \alpha = 90 - \alpha$

(מורה) $\angle F_1 = \angle E_1 = 90 - \alpha$

$\angle FOC = 180 - \angle F_1 - \angle C_1 =$

: $\triangle FOC$

$= 180 - (90 - \alpha) - \alpha =$

$= 180 - 90 + \alpha - \alpha = 90$

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