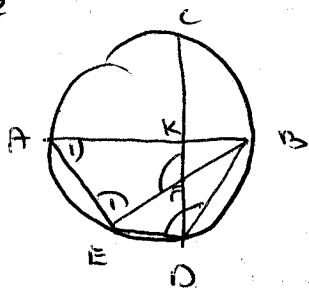


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(כ) $\angle K = 90$
 (הוכיח כי $\angle AKB = 90$)

כ"ב

היחסים $\angle AKB = \angle AKE + \angle EKB = x + x = 180$

(הוכיח כי) היחסים $\angle ABE = \angle ADE$

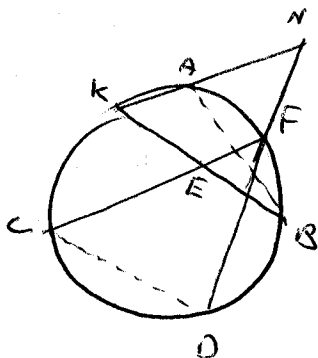
כ"ב

$\angle O + \angle A_1 = 180$

$\angle F + \angle A_1 = 180 \iff$ (הוכיח כי) היחסים $\angle AKE = \angle AFE$

$\angle F = \angle D$

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היחסים $\angle NKE = \angle CFD = x$

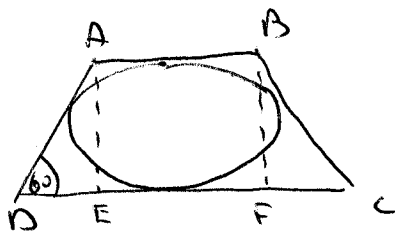
כ"ב

(הוכיח כי $\angle CFD$ הוא זווית חיצונית) $\angle EFN = 180 - x$

$\angle NKE + \angle EFN = 180 - x + x = 180$

היחסים $\angle KNE = \angle KFE$ כל

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<http://hesbonia.com/> כל הזכויות שמורות ל...

$AB + DC = AD + BC$ (היחסים $\angle A = \angle C$)

$24 = AB + BC + DC + AD$

$24 = 2(AD + BC) = 4AD$

כ"ב

$AD = 6$

נניח $AE = x$ ו- $BF = y$

היחסים $\angle ADE = \angle BCF$ כי $\angle A = \angle C$ ו- $\angle AED = \angle CFB$ כי $\angle A + \angle AED = 180$ ו- $\angle C + \angle CFB = 180$

$OE = \frac{1}{2} AD = 3$

$FC = 3$ כי $\angle A = \angle C$

היחסים $\angle AEF = \angle BCF$ כי $\angle A = \angle C$ ו- $\angle AEF = \angle BCF$ כי $\angle A + \angle AEF = 180$ ו- $\angle C + \angle BCF = 180$

$AB + EF + DE + FC = AD + BC$

$\iff AB = EF$

$2AB + 3 + 3 = 12$

$AB = 3$

$AB = 3, AD = 6, BC = 6, DC = 3 + 3 + 3 = 9$