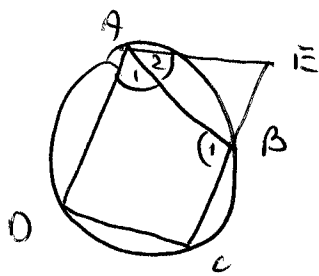


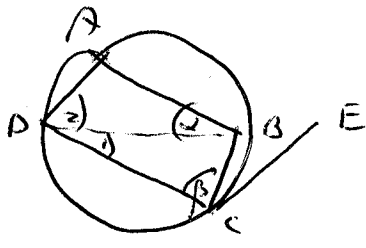
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$\alpha = \angle ABE = \angle ABE$ (כ"כ) (כ"כ)
 (פ"ק א"כ) $\angle B = 180 - \alpha$
 (פ"ק א"כ) $\angle D + \angle B = 180$
 $\angle D = 180 - (180 - \alpha) = \alpha$

$\angle A + \angle C = 180$ (פ"ק א"כ) (כ"כ)
 $\angle A_1 = 180 - \angle C = 180 - 105 = 75$
 $\angle A_2 = \angle A - \angle A_1 = 95 - 75 = 20$
 (כ"כ) $\angle E = \angle ABE = \frac{180 - \angle A_2}{2} = \frac{180 - 20}{2} = 80$
 (כ"כ) $\angle D = \angle E = 80$

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(כ"כ) $AB = AD$ (כ"כ)
 $\angle ABD = \angle ADB = \alpha$
 $\angle A = 180 - \angle ABD - \angle ADB = 180 - 2\alpha$

(פ"ק א"כ) $\angle A + \angle DCB = 180$
 $180 - 2\alpha + \beta = 180$
 $\beta = 2\alpha$

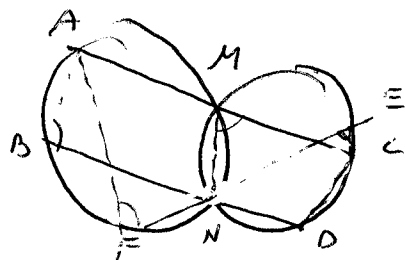
הזווית הזו היא זווית חיצונית (כ"כ) $\angle D_1 = \angle BCE = 30$

$\angle DCB = 180 - \angle DBC - \angle D_1 = 180 - 30 - 80 = 70$
 (פ"ק א"כ) $\angle A = 180 - \angle DCB = 110$

(פ"ק א"כ) $\angle D_2 + \alpha + 110 = 180$
 $2\alpha + 110 = 180$
 $\alpha = 35$

$\angle B = 80 + 35 = 115$
 (פ"ק א"כ) $\angle D = 180 - 115 = 65$

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$\angle A = \angle C$ (כ"כ) (כ"כ)
 $180 - x = \angle ANM \leftarrow \angle A = x$ (כ"כ)
 (כ"כ) $\angle MNC = 180 - (180 - x) = x$

$\angle C = 180 - x$
 $\angle MND + \angle C = 180$
 $\leftarrow x + \angle C = 180$
 $\angle A + \angle C = 180$

(כ"כ) $\angle AFE = \angle B$
 (כ"כ) $\angle NMC = \angle MNC$ (כ"כ)

$\angle B + \angle AMN = 180 \rightarrow \angle B = \angle NMC$ (כ"כ) $\angle AFE = \angle NMC \rightarrow AF \parallel EC$

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