



$$\frac{1 \cdot 18}{3} = k$$

נניח נקודה AK  
 $AG = \frac{2}{3} AK$

$\angle A_1 = \alpha$  (נניח)  
 $\angle B = 90 - \alpha$

$\angle A_2 = 90 - 2\alpha \leftarrow \angle A_1 + \angle A_2 = 90 - \alpha \Leftarrow AK = KB$   
 $\angle A_1 + \angle A_2 = \angle B \rightarrow$  ע"כ

$KH = x \leftarrow \begin{matrix} CH = 4x \\ BH = 2x \end{matrix} \quad \begin{matrix} CK = 3x \\ KB = 3x \end{matrix} \leftarrow CB = 6x$  (נניח)

$\frac{KH}{BK} = \frac{2x}{3x} = \frac{2}{3} = \frac{GK}{AK} \Rightarrow GH \parallel AB$

ע"כ  $\triangle AGKB$   $\Leftarrow$   $k$ ? משהו? נניח משהו  $\triangle HKB$  !  $AG$

(?)

$AG = HB$   
 $\angle GAP = \angle HBP$   
 $AP = PB$

$\left. \begin{matrix} \triangle AGP = \triangle BHP \end{matrix} \right\} \text{(S.S.S)}$   
 $\downarrow$   
 $GP = PH$

$GP = PH = AP$   
 $\downarrow$   
 ע"כ  $\triangle APG$

(חלילה)  $\triangle AHB$ ? נניח נקודה PH