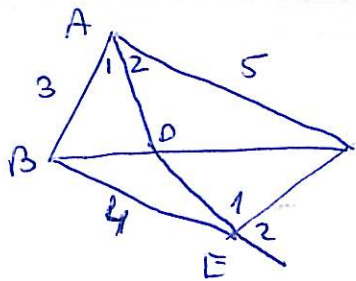


55



(מ"ש AD)  $\frac{AB}{AC} = \frac{BD}{DC}$   $BP = x$  (מ"ש)

$\frac{3}{5} = \frac{x}{DC} \Rightarrow DC = \frac{5}{3}x$

(מ"ש EC)  $\frac{BE}{DE} = \frac{BC}{DC}$

$\frac{4}{DE} = \frac{x + \frac{5}{3}x}{\frac{5}{3}x} = \frac{\frac{8}{3}x}{\frac{5}{3}x} = \frac{8}{5}$

$DE = 2.5$

$\frac{AB}{BD} = \frac{56}{40} = \frac{7}{5}$

מ"ש BH

$\frac{AG}{DG} = \frac{14}{10} = \frac{7}{5}$

$\Rightarrow$  מ"ש ABE

מ"ש BAD מ"ש AC

$\frac{BC}{CD} = \frac{28}{12} = \frac{7}{3} \Rightarrow \angle BAC = \angle CAD = \angle A_1$  (מ"ש)

$\frac{AB}{AD} = \frac{56}{24} = \frac{7}{3}$

$\frac{AB}{AD} = \frac{56}{24} = \frac{7}{3}$

$\frac{BF}{DF} = \frac{70}{30} = \frac{7}{3}$

$\Downarrow$

מ"ש PAF מ"ש AS

$\angle DAF = \angle FAS = \angle A_2$

(מ"ש)

$180 = \angle A = \angle A_1 + \angle A_1 + \angle A_2 + \angle A_2 = 2(\angle A_1 + \angle A_2)$

$\angle A_1 + \angle A_2 = 90$

$\Downarrow$

$\angle CAF = \angle CAD + \angle DAF = \angle A_1 + \angle A_2 = 90$

$EC = 21 = EF$

$\Downarrow$   
מ"ש AE

התיכון למ"ש במ"ש ו"ש זוו"ל שווה למחצית היתר  $\leftarrow AE = 21$

(מ"ש BH מ"ש BA)  $\frac{AB}{BE} = \frac{AH}{HE}$

$\frac{56}{49} = \frac{AH}{x}$

$AH = \frac{56x}{49} = \frac{8}{7}x$

$AE = 21 = AH + HE = x + \frac{8}{7}x = 2\frac{1}{7}x$

$x = \frac{21}{2\frac{1}{7}} = 9.8$