1.87

6. (E) $\triangle BRC \sim \triangle AQC$

$\sphericalangle BCR = \sphericalangle ACQ$

$\sphericalangle BCR - \sphericalangle ACR = \sphericalangle ACQ - \sphericalangle ACR$

$\sphericalangle ACB = \sphericalangle QCR$

(F) $\triangle APB \sim \triangle BRC \sim \triangle AQC$

$\frac{BP}{RB} = \frac{AB}{BC}$

$\sphericalangle PBA = \sphericalangle RBC \rightarrow \sphericalangle PBA + \sphericalangle ABR = \sphericalangle RBC + \sphericalangle ABR$

$\triangle PBR \sim \triangle ABC$ (ז.ס.ז) $\Rightarrow$ ✗

$\frac{BC}{AC} = \frac{RC}{QC}$ } $\triangle ABC \sim \triangle QCR$

$\sphericalangle BAC = \sphericalangle RCQ$

$\sphericalangle BEA = \alpha = \sphericalangle RCQ = PBR$ (NO) (E)

$\sphericalangle ACR = \beta$

$\sphericalangle RCB = \alpha + \beta = \sphericalangle RBC = \sphericalangle PBA = \sphericalangle PAB = \sphericalangle ACQ = \sphericalangle CAQ$

$\sphericalangle APB = \sphericalangle BRC = 180 - 2\alpha - 2\beta = \sphericalangle AQC \rightarrow \sphericalangle RQC = 180 - 3\alpha - 2\beta$ (n)13+n)

$\sphericalangle AQP = \sphericalangle AQC - \sphericalangle RQC = \alpha$

$\sphericalangle AQR = \alpha = \sphericalangle PRB \Rightarrow PR \parallel AQ$

$\sphericalangle RQC = 180 - 3\alpha - 2\beta = \sphericalangle BAC$

$\sphericalangle PAQ + \sphericalangle AQR = (\alpha + \beta) + (180 - 3\alpha - 2\beta) + (\alpha + \beta) + \alpha = 180^\circ$

$\Rightarrow PA \parallel RQ \Rightarrow$ טרפז PRQA