

1.31
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(S.S) $\triangle ACE \sim \triangle DBE \leftarrow$ (הקבוצה) $\angle CEA = \angle BED$ כ"כ
(AD חוצה BC) $\angle ACE = \angle ABD$

$$\frac{CE}{BE} = \frac{AE}{ED} \rightarrow CE \cdot ED = AE \cdot BE$$

(הקבוצה של $\triangle AEF$) הווה $\triangle ABF$ (1) \rightarrow

$$\left. \begin{array}{l} \angle EAF = \angle BAF \\ \angle AFE = \angle ABF \end{array} \right\} \begin{array}{l} \text{זוויות שוות} \\ \text{המתכות} \end{array} \Rightarrow \begin{array}{l} EF^2 = AE \cdot EB \\ AE \cdot EB = CE \cdot ED = EF^2 \end{array}$$

$90^\circ = \angle CFD \leftarrow$ הווה $\triangle CDF$ $\angle CDF = \angle EFD$, $\triangle CDF$ (2)