







p 288

Practice p 2 On the map, North Craig Street bisects the angle formed between Bellefield Avenue and Ellsworth Avenue.

• The distance from the ATM to the Coffee Shop is 300 feet, the Coffee Shop to the Library is 500 feet, and from your apartment to the Library is 1200 feet.

Determine the distance from your apartment to the ATM.







$\Delta ADE \sim \Delta ABC$	p 293 Corresponding sides of similar triangles are proportional
$\frac{BD}{DA} = \frac{CE}{EA}$	Corresponding Angle Postulate
$\measuredangle AED \cong \measuredangle C$	Given
$\overline{BC} \parallel \overline{DE}$	Corresponding Angle Postulate
$\frac{BA}{DA} = \frac{CA}{EA}$	AA Similarity
BA = BD + DA $CA = CE + EA$	Substitution
$\measuredangle ADE \cong \measuredangle B$	Segment Addition
$\frac{BD + DA}{DA} = \frac{CE + EA}{EA}$	Simplify















The truss for a barn roof is shown below. \overline{DF} bisects $\measuredangle ADB$ and \overline{EG} bisects $\measuredangle CEB$. $\triangle DEB$ is an equilateral triangle. Calculate the perimeter of the truss.



