

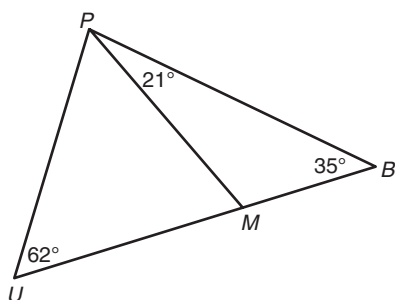
LESSON 3.1 Assignment

Name _____ Date _____

Inside Out

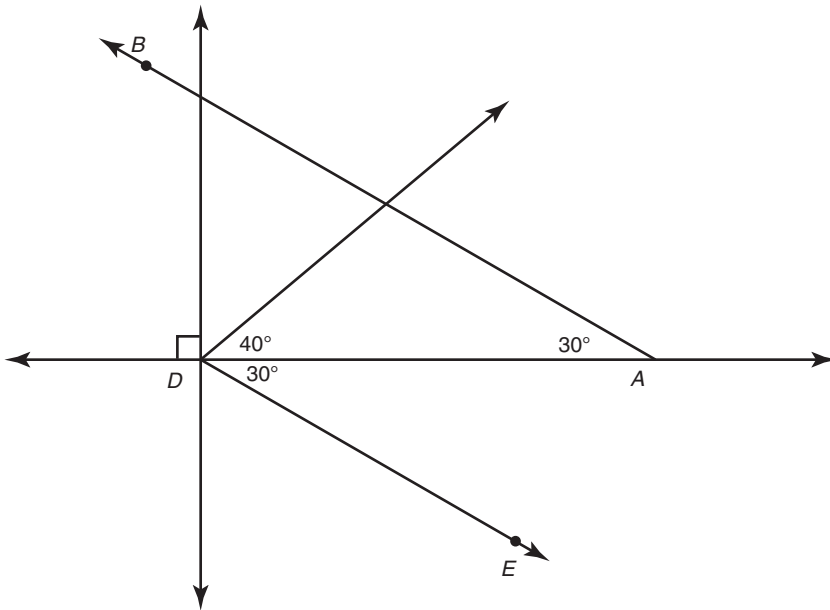
Triangle Sum, Exterior Angle, and Exterior Angle Inequality Theorems

1. Determine the measure of angle UPM in the figure shown. Explain your reasoning and show all your work.



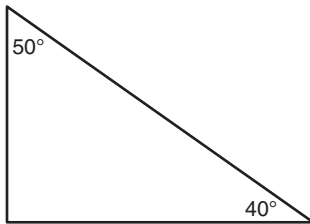
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2. In the figure shown, \overleftrightarrow{AB} is parallel to \overleftrightarrow{DE} . Determine the measure of each missing angle in the figure.



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3. You are building a triangular play area for your new puppy. You decide that the play area will have angle measures of 50° and 40° as shown.



- a. Which side of the play area is the longest?

- b. Which side of the play area is the shortest?

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c. Explain how you determined your answers in parts (a) and (b).

Solve for x .

