

Calculating Angles through Relationships Guided Lesson Explanation

Explanation to #1-

<z is an alternate exterior angle to the known angle measure (140°). Alternate exterior angles have equal values. The measure of <z is therefore 140°.

Explanation to #2-

< y and <z are supplementary angles. This means that the sum of <y and < z equal 180°. Using our knowledge for #1: <y + 140° = 180° <y = 180° - 140° = 40°

Explanation to #3-

< x and the known angle (140°) are supplementary angles. This means that the sum of <x and 140° equal 180°. <x + 140° = 180° <x = 180° - 140° = 40°

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