

The Secret of Proving Parallel Lines and Exterior Angle Theorem (Big Geometry Section 3...

Lesson 070 | Geometry | Parallel lines and angle relationships

<https://www.youtube.com/watch?v=FmeXyRKknWQ>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Two parallel lines are cut by a transversal. Corresponding angles are $(13x+7)^\circ$ and 85° . Find x , the corresponding angle, and its supplementary angle.

02

Two parallel lines are cut by a transversal. Corresponding angles are $(11x+10)^\circ$ and 76° . Find x , the corresponding angle, and its supplementary angle.

03

Two parallel lines are cut by a transversal. Corresponding angles are $(13x+10)^\circ$ and 36° . Find x , the corresponding angle, and its supplementary angle.

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04

Two parallel lines are cut by a transversal. Corresponding angles are $(8x+12)^\circ$ and 44° . Find x , the corresponding angle, and its supplementary angle.

05

Two parallel lines are cut by a transversal. Corresponding angles are $(3x+5)^\circ$ and 17° . Find x , the corresponding angle, and its supplementary angle.

06

Two parallel lines are cut by a transversal. Corresponding angles are $(11x+5)^\circ$ and 60° . Find x , the corresponding angle, and its supplementary angle.

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01

Two parallel lines are cut by a transversal. Corresponding angles are $(13x+7)^\circ$ and 85° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $13x+7=85$; $x=6$. Angle 85° ; supplement 95° .

02

Two parallel lines are cut by a transversal. Corresponding angles are $(11x+10)^\circ$ and 76° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $11x+10=76$; $x=6$. Angle 76° ; supplement 104° .

03

Two parallel lines are cut by a transversal. Corresponding angles are $(13x+10)^\circ$ and 36° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $13x+10=36$; $x=2$. Angle 36° ; supplement 144° .

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04

Two parallel lines are cut by a transversal. Corresponding angles are $(8x+12)^\circ$ and 44° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $8x+12=44$; $x=4$. Angle 44° ; supplement 136° .

05

Two parallel lines are cut by a transversal. Corresponding angles are $(3x+5)^\circ$ and 17° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $3x+5=17$; $x=4$. Angle 17° ; supplement 163° .

06

Two parallel lines are cut by a transversal. Corresponding angles are $(11x+5)^\circ$ and 60° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $11x+5=60$; $x=5$. Angle 60° ; supplement 120° .