

The Secret of Proving Perpendicular Lines with Transversal Theorem and More (Big Idea ...)

Lesson 042 | Geometry | Parallel lines and angle relationships

<https://www.youtube.com/watch?v=FN-A8yRvqf0>

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 $(3x+14)^\circ$ and 26° . Find x , the corresponding angle, and its supplementary angle.

02

Two parallel lines are cut by a transversal. Corresponding angles are $(4x+2)^\circ$ and 26° . Find x , the corresponding angle, and its supplementary angle.

03

Two parallel lines are cut by a transversal. Corresponding angles are $(6x+5)^\circ$ and 35° . 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 $(10x+6)^\circ$ and 66° . Find x , the corresponding angle, and its supplementary angle.

05

Two parallel lines are cut by a transversal. Corresponding angles are $(11x+8)^\circ$ and 63° . Find x , the corresponding angle, and its supplementary angle.

06

Two parallel lines are cut by a transversal. Corresponding angles are $(4x+9)^\circ$ and 29° . 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 $(3x+14)^\circ$ and 26° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $3x+14=26$; $x=4$. Angle 26° ; supplement 154° .

02

Two parallel lines are cut by a transversal. Corresponding angles are $(4x+2)^\circ$ and 26° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $4x+2=26$; $x=6$. Angle 26° ; supplement 154° .

03

Two parallel lines are cut by a transversal. Corresponding angles are $(6x+5)^\circ$ and 35° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $6x+5=35$; $x=5$. Angle 35° ; supplement 145° .

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04

Two parallel lines are cut by a transversal. Corresponding angles are $(10x+6)^\circ$ and 66° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $10x+6=66$; $x=6$. Angle 66° ; supplement 114° .

05

Two parallel lines are cut by a transversal. Corresponding angles are $(11x+8)^\circ$ and 63° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $11x+8=63$; $x=5$. Angle 63° ; supplement 117° .

06

Two parallel lines are cut by a transversal. Corresponding angles are $(4x+9)^\circ$ and 29° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $4x+9=29$; $x=5$. Angle 29° ; supplement 151° .