

3 1, 3 2 Pair of Lines and Angles Transversal and Parallel Lines

Lesson 041 | Geometry | Parallel lines and angle relationships

<https://www.youtube.com/watch?v=u5hMKIs0L9M>

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 $(11x+3)^\circ$ and 58° . Find x , the corresponding angle, and its supplementary angle.

02

Two parallel lines are cut by a transversal. Corresponding angles are $(2x+5)^\circ$ and 13° . Find x , the corresponding angle, and its supplementary angle.

03

Two parallel lines are cut by a transversal. Corresponding angles are $(4x+7)^\circ$ and 15° . 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 $(12x+9)^\circ$ and 33° . Find x , the corresponding angle, and its supplementary angle.

05

Two parallel lines are cut by a transversal. Corresponding angles are $(7x+10)^\circ$ and 59° . Find x , the corresponding angle, and its supplementary angle.

06

Two parallel lines are cut by a transversal. Corresponding angles are $(9x+3)^\circ$ and 21° . 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 $(11x+3)^\circ$ and 58° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $11x+3=58$; $x=5$. Angle 58° ; supplement 122° .

02

Two parallel lines are cut by a transversal. Corresponding angles are $(2x+5)^\circ$ and 13° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $2x+5=13$; $x=4$. Angle 13° ; supplement 167° .

03

Two parallel lines are cut by a transversal. Corresponding angles are $(4x+7)^\circ$ and 15° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $4x+7=15$; $x=2$. Angle 15° ; supplement 165° .

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04

Two parallel lines are cut by a transversal. Corresponding angles are $(12x+9)^\circ$ and 33° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $12x+9=33$; $x=2$. Angle 33° ; supplement 147° .

05

Two parallel lines are cut by a transversal. Corresponding angles are $(7x+10)^\circ$ and 59° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $7x+10=59$; $x=7$. Angle 59° ; supplement 121° .

06

Two parallel lines are cut by a transversal. Corresponding angles are $(9x+3)^\circ$ and 21° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $9x+3=21$; $x=2$. Angle 21° ; supplement 159° .