

Geometry 3 5 Equations of Parallel and Perpendicular Lines + Finding a Missing point on ...

Lesson 043 | Geometry | Lines and slopes • Parallel lines and angle relationships

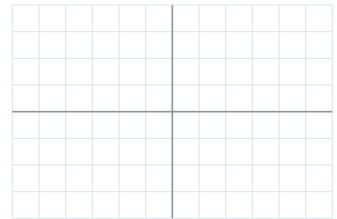
<https://www.youtube.com/watch?v=MDWUHODQzhE>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

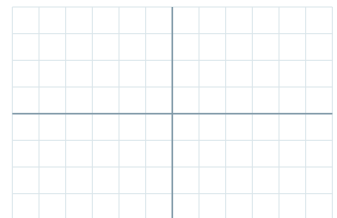
Write point-slope and slope-intercept equations of the line through $(-5, 3)$ with slope 6. Sketch it.

**02**

Two parallel lines are cut by a transversal. Corresponding angles are $(14x+4)^\circ$ and 74° . Find x , the corresponding angle, and its supplementary angle.

03

Write point-slope and slope-intercept equations of the line through $(8, 10)$ with slope 5. Sketch it.



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04

Two parallel lines are cut by a transversal. Corresponding angles are $(14x+6)^\circ$ and 76° . Find x , the corresponding angle, and its supplementary angle.

05

Find the slope through $(4, 4)$ and $(7, 34)$. Write the line equation.

06

Two parallel lines are cut by a transversal. Corresponding angles are $(2x+6)^\circ$ and 14° . Find x , the corresponding angle, and its supplementary angle.

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01

Write point-slope and slope-intercept equations of the line through $(-5, 3)$ with slope 6. Sketch it.

$y - 3 = 6(x - -5)$; $y = 6x + (33)$. Plot $(-5, 3)$ and $(-4, 9)$.

02

Two parallel lines are cut by a transversal. Corresponding angles are $(14x+4)^\circ$ and 74° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $14x+4=74$; $x=5$. Angle 74° ; supplement 106° .

03

Write point-slope and slope-intercept equations of the line through $(8, 10)$ with slope 5. Sketch it.

$y - 10 = 5(x - 8)$; $y = 5x + (-30)$. Plot $(8, 10)$ and $(9, 15)$.

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04

Two parallel lines are cut by a transversal. Corresponding angles are $(14x+6)^\circ$ and 76° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $14x+6=76$; $x=5$. Angle 76° ; supplement 104° .

05

Find the slope through $(4, 4)$ and $(7, 34)$. Write the line equation.

$m = (34 - 4)/(7 - 4) = 10$. Thus $y - 4 = 10(x - 4)$.

06

Two parallel lines are cut by a transversal. Corresponding angles are $(2x+6)^\circ$ and 14° . Find x , the corresponding angle, and its supplementary angle.

Corresponding angles are equal: $2x+6=14$; $x=4$. Angle 14° ; supplement 166° .