Name:

Date:

Two-Point Slope-Intere:

Period:

Derive a Linear Equation from Two Points: Slope-Intercept Method

Eight two-point pairs

Four source exercises plus four additional pairs consistent with the lesson method; all solvable from text alone.

#	Point 1	Point 2
1	(2, 3)	(6, 11)
2	(-1, 5)	(3, -3)
3	(0, 4)	(4, 6)
4	(2, 7)	(5, 1)
5	(1, 2)	(4, 8)
6	(-2, 1)	(2, 9)
7	(3, -1)	(7, 7)
8	(0, -2)	(5, 3)

Derive a Linear Equation from Two Points: Slope-Intercept Method

Structured workspace for each pair

Each pair uses the same five-step workspace; practice values and reasons are left empty.

Step 1: Label (x1, y1) and (x2, y2)	
Step 2: Compute m = (y2 - y1)/(x2 - x1) and simplify	
Step 3: Substitute m and one point into y = mx + b	
Step 4: Solve for b	
Step 5: Write y = mx + b with simplified m and b	
Check both original points	

Derive a Linear Equation from Two Points: Slope-Intercept Method

Original tasks 1, 2, 3 / blank responses

Task 1

Find the equation of the line through (2, 3) and (6, 11).

Task 2

Find the equation of the line through (-1, 5) and (3, -3).

Task 3

Find the equation of the line through (0, 4) and (4, 6).

Derive a Linear Equation from Two Points: Slope-Intercept Method

Original tasks 4 / blank responses

Task 4

Find the equation of the line through (2, 7) and (5, 1).