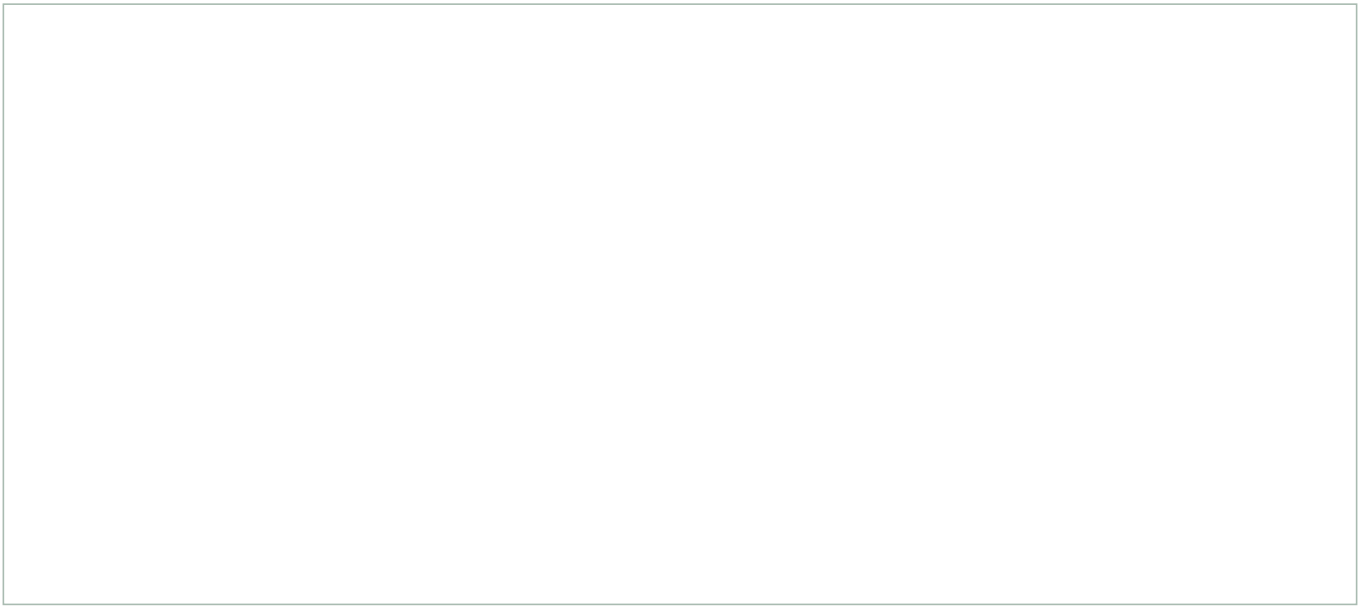
Name: Date:

Slope Rules for Parallel and Perpendicular Lines: Worksheet Design

Worked example (student space)

Student writes slope of A, slope of B, comparison, and classification.



Slope Rules for Parallel and Perpendicular Lines: Worksheet Design

Four classification exercises

Each item: compute both slopes, show comparison, label classification.

Item	Prompt	Slope 1	Slope 2
1	Line P: y = 3x + 1; Line Q: y = 3x - 4		
2	Line R: (0,0),(2,6); Line S: (1,1),(3,7)		
3	Line T: slope -2/3; Line U: slope 3/2		
4	Line V: y = 4x + 2; Line W: y = -4x + 2		

Slope Rules for Parallel and Perpendicular Lines: Worksheet Design

Original tasks 1, 2, 3 / blank responses

Task 1

Line P has equation y = 3x + 1. Line Q has equation y = 3x - 4. Classify the pair.

Task 2

Line R passes through (0, 0) and (2, 6). Line S passes through (1, 1) and (3, 7). Classify the pair.

Task 3

Line T has slope negative two thirds. Line U has slope three halves. Classify the pair.

Slope Rules for Parallel and Perpendicular Lines: Worksheet Design

Original tasks 4 / blank responses

Task 4

Line V has equation y = 4x + 2. Line W has equation y = negative 4x + 2. Classify the pair.