

UNIT 5 - LESSON PLANS

Class Algebra 1

Topic U5– Parallel and Perpendicular Lines

Lesson 6 **Of** 8

Students will:

Objective

- Be able to understand the relation between slopes of parallel and perpendicular lines.
- Be able to write the equations of parallel and perpendicular lines using the concept of slopes.

“I Can” Statement

I can write the equation of any line that is parallel or perpendicular to a line.

Common Core Standards

[CCSS.MATH.CONTENT.HSG.GPE.B.5](#)

Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point).

[CCSS.MATH.CONTENT.8.EE.B.6](#)

Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b .

Bell Work

See 5-6 Bell Work

Procedures

1. Start and lead student discussion related to the bell work.
2. Distribute the Guided Notes
3. Present lesson or play a video lesson.
4. Use an Online Activity if time permitted.
5. Distribute Lesson Assignment.

UNIT 5 - LESSON PLANS

Assessment

Bell Work 5-6

Assignment 5-6

Exit Quiz 5-6

Additional Resources

See Online Activities