

UNIT 3 - LESSON PLANS

Class Geometry

Topic U3 – Find and Use Slopes of Lines

Lesson 4 **Of** 6

Objective

Students will:

- Students will understand that the slope or steepness of the line represents the unit rate of change as it applies to the data that generates the graph.
- Students will apply Common Core Mathematical Practices to slope, rates, unit rates, linear equations, and linear graphs. Students will also see how the concept of slope can be connected to real world applications.

“I Can” Statement

I can find and use slopes of lines to solve mathematical problems as well as identify their uses in the real world.

Common Core Standards

[CCSS.MATH.CONTENT.8.EE.B.5](#)

Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.

[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 .

[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).

Bell Work

See DANCE DANCE TRANSVERSAL – from lesson 3-3! Have Fun!

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Procedures

1. Start and lead student discussion related to the bell work. Compare slope of transversal and parallel lines. Lead into Slope and Point Slope Formulas.
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.

Assessment

Dance Dance Transversal
Assignment 3-4
Exit Slip 3-4

Additional Resources

See Online Activities