

CLO: Students will write the equation of a line in point-slope form from a graph and from a point and a slope, which will help the students see how the slope is used in different algebraic situations.

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Warm Up:

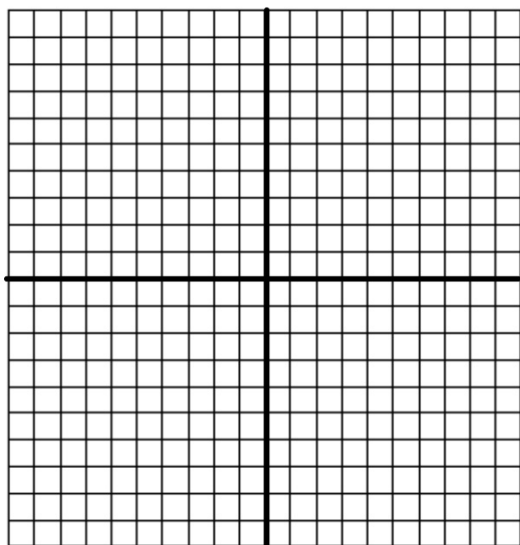
1. Solve for x:  $\frac{3x+5}{2} + 4 = 5$

2. Find the slope between (4, -3) and (-9, -5)

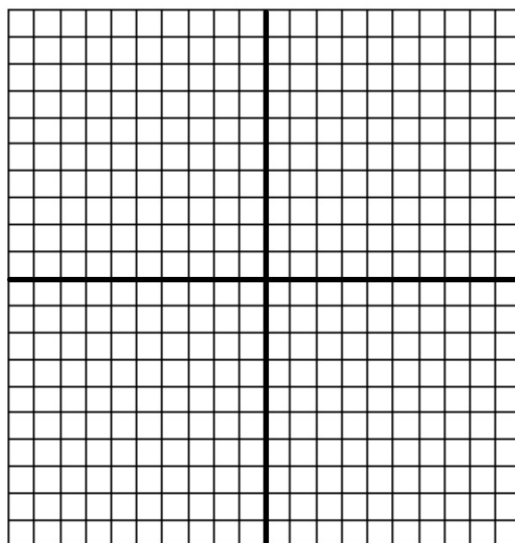
Objective: SWBAT write the equation of a line in point-slope form from a graph and from being given a point and a slope.

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Point  $(-4, -2)$   
and slope of 5



Point of  $(-2, 5)$   
and a slope -2



Objective: SWBAT write the equation of a line in point-slope form from a graph and from being given a point and a slope.

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There are different ways to write the equation of a line

1.

2.

3.

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Lets write the equation of the lines from last week in Point-Slope Form.

1). Given the point (1, 2) and a slope of  $\frac{4}{5}$

Objective: SWBAT write the equation of a line in point-slope form from a graph and from being given a point and a slope.

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2). Point at (0, 4) and a slope of  $-\frac{3}{2}$

Objective: SWBAT write the equation of a line in point-slope form from a graph and from being given a point and a slope.

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3). Point  $(-4, -2)$  and slope of 5

4). Point of  $(-2, 5)$  and a slope -2

Objective: SWBAT write the equation of a line in point-slope form from a graph and from being given a point and a slope.

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**Identify the point on the line and the slope and write in Point-Slope Form.**

