



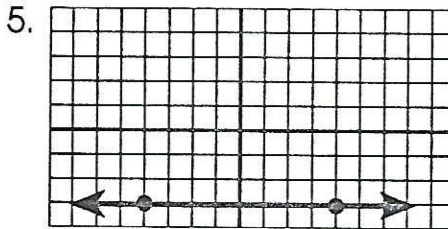
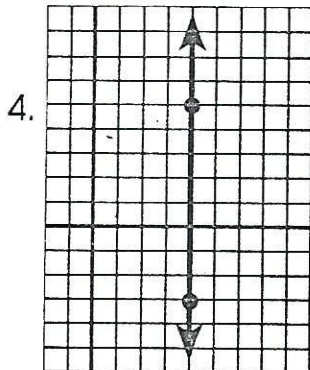
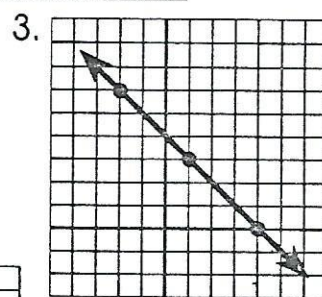
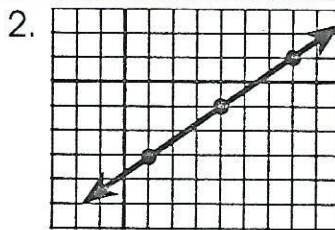
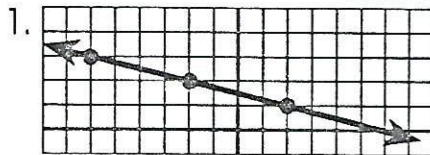
Linear Equations and Inequalities

Finding the Slope of a Line

I. Slope = $\frac{\text{vertical change}}{\text{horizontal change}}$

Identify the slope of the line using the graph.

Using points 1 & 2
 vertical change = -3
 horizontal change = -1
 slope = $\frac{-3}{-1} = 3$



II. Slope = $\frac{\text{change in y-values}}{\text{change in x-values}} = \frac{Y_2 - Y_1}{X_2 - X_1}$

Find the slope of the line passing through the given points.

$(-1, 5) (3, -2)$
 slope = $\frac{-2 - 5}{3 - (-1)} = \frac{-7}{4}$

6. $(0, 0) (3, 5)$

7. $(5, -2) (-7, 4)$

8. $(-6, 3) (-2, -9)$

9. $(6, -9) (-4, 3)$

10. $(-3, -11) (2, -7)$

11. $(7, 3) (-8, 3)$

12. $(0, 0) (4, -3)$

13. $(-2, -3) (2, 5)$

14. $(-4, 8) (-4, -3)$