Geometry Readiness Practice 5 ... Graphing Equations ... Graphing Inequalities

Unit E: Linear Equations & Inequalities and Their Graphs

Be able to:

- Find rate of change (slope) from a table.
- Calculate the slope of a line, given two points or the graph of a line
- Recognize that a line with a positive slope rises to the right, while a line with a negative slope falls to the right
- Find the slope of a horizontal or vertical line
- Graph a line in slope-intercept form, using the y-intercept and the slope
- · Graph a line in standard form, using the x-intercept and y-intercept
- Write an equation of a line in slope-intercept form, given the slope and y intercept, or two points
- Write the equation of a line, given its graph
- Recognize whether a given pair of lines are parallel or perpendicular or neither
- · Write the equation of a line, given one point and the equation of a parallel or perpendicular line
- Write linear equations to model and solve real-world applications
- Graph linear inequalities, recognizing that the graph is a shaded region of the coordinate plane and that < and > require a dashed boundary line, while ≤ and ≥ require a solid boundary line

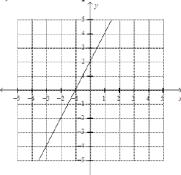
and y-intercepts of 3) Find the slope of the line that
passes through the points $(2, 7)$ and $(-2, 5)$

Geometry Readiness Practice 5

... Graphing Equations

... Graphing Inequalities

4) Find the slope of the line.



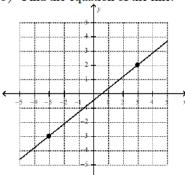
Graph the following linear equations



10)
$$2x-4y=8$$

on graph at the right.

5) Find the equation of the line.

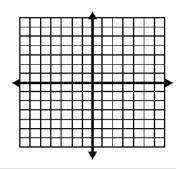


6) Write an equation for the line through the point (4, -1) with

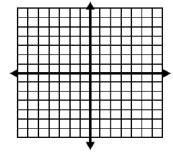
slope
$$=\frac{-1}{3}$$
.

- 7) What is the *y*-intercept of 7x-3y=6?
- 8) Find the slope of the line containing the points (-2, 3) and (0, 8).
- 11) State the slope of y = -2x + 12.
- 12) Write the equation of the line in slope-intercept form with slope $=\frac{1}{4}$ and *y*-intercept of (0, 3).
- 13) What is the slope of the line defined by x = 2?

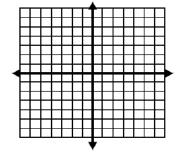
14) State the slope and *y*-intercept of $y = \frac{1}{3}x - 4$. Graph the line.



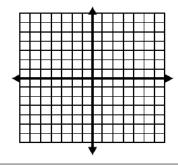
15) Graph: $y = \frac{-1}{2}x - 5$



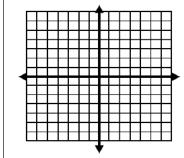
16) Graph: $y = \frac{5}{3}x - 2$



17) Graph: $y > \frac{-1}{3}x + 4$



18) Graph: $y \le 2x + 1$



2

Geometry Readiness Practice 5 ... Graphing Equations ... Graphing Inequalities

Answers

