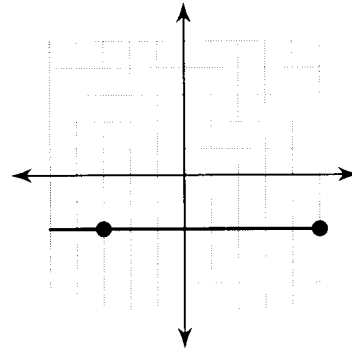


Q3 Exam 3 Practice Set #2

Find the slope of each line.

1) $y = -\frac{3}{2}x - 3$

2)

**Find the slope of the line through each pair of points.**

3) $(0, -10), (3, -5)$

4) $(-13, 10), (-3, 14)$

Find the slope of a line parallel to each given line.

5) $y = x$

Find the slope of a line perpendicular to each given line.

6) $y = \frac{2}{5}x + 1$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

7) Slope = $-\frac{5}{2}$, y-intercept = -4

Write the slope-intercept form of the equation of the line through the given point with the given slope.

8) through: $(-2, -5)$, slope = $\frac{7}{2}$

Write the slope-intercept form of the equation of the line through the given points.

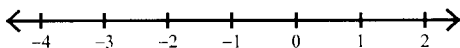
9) through: $(4, -5)$ and $(2, 2)$

Write the standard form of the equation of each line.

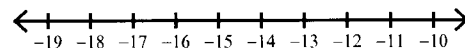
10) $y + 2 = -\frac{5}{3}(x - 3)$

Solve each inequality and graph its solution.

11) $16 > n + 17$



12) $-42 < 3m$



Answers to Q3 Exam 3 Practice Set #2

1) $-\frac{3}{2}$

2) 0

3) $\frac{5}{3}$

4) $\frac{2}{5}$

5) 1

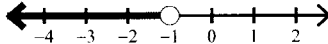
6) $-\frac{5}{2}$

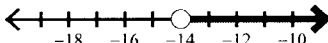
7) $y = -\frac{5}{2}x - 4$

8) $y = \frac{7}{2}x + 2$

9) $y = -\frac{7}{2}x + 9$

10) $5x + 3y = 9$

11) $n < -1$: A horizontal number line with arrows at both ends. It has tick marks labeled -4, -3, -2, -1, 0, 1, and 2. An open circle is drawn at the point -1.

12) $m > -14$: A horizontal number line with arrows at both ends. It has tick marks labeled -18, -16, -14, -12, and -10. An open circle is drawn at the point -14.