

3.6 Homework

On graph paper, use the slope and y-intercept to graph each line.

1. $y = \frac{2}{3}x + 2$
2. $y = -2x + 4$
3. $y = \frac{1}{2}x - 3$

Find the x- and y-intercept of each line. Use these two points to graph each line on graph paper.

4. $3x + 5y = 15$
5. $4x - 3y = 12$

Rearrange each equation so that it is in slope-intercept form.

6. $x + 3y = 6$
7. $5x - 2y = 20$

Write an equation of each line in point-slope form.

8. A(-3, 7), slope = 4
9. B(2, 8), slope = $-\frac{1}{3}$

Find the slope between the two points, then write an equation of the line in point-slope form.

10. C(6, 5), D(2, 8)
11. E(-4, 2), F(3, -1)

Write the equation for (a) the horizontal line and (b) the vertical line through each point.

12. G(-11, 5)
13. H(-35, 24)