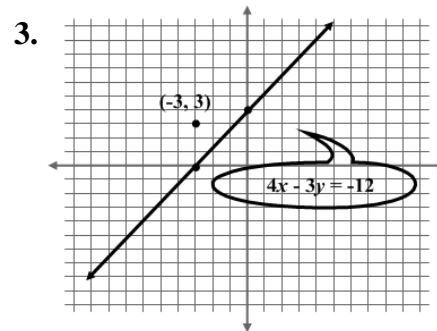
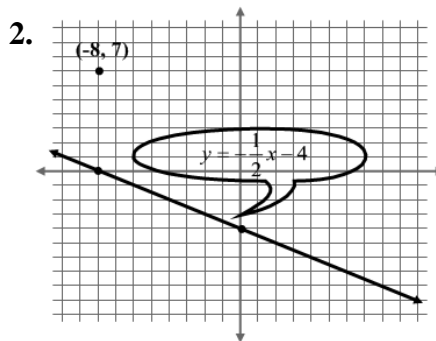
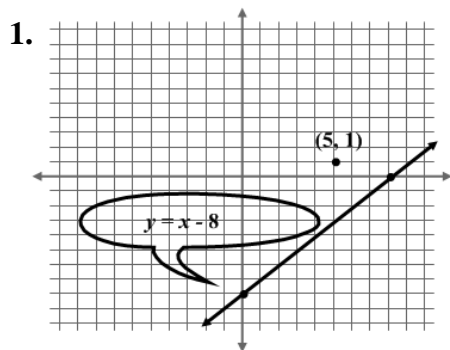


Name: _____ Date: _____ Period: _____

WRITING EQUATIONS OF PARALLEL AND PERPENDICULAR LINES

5.5 Practice 1

Write the slope-intercept form for an equation of the line that passes through the given point and is parallel to the graph of each equation.



4. $(-2, 2)$, $y = 4x - 2$

5. $(6, 4)$, $y = \frac{1}{3}x + 1$

6. $(4, -2)$, $y = -2x + 3$

7. $(-2, 4)$, $y = -3x + 10$

8. $(-1, 6)$, $3x + y = 12$

9. $(4, -6)$, $x + 2y = 5$

10. Find an equation of the line that has a y-intercept of 2 that is parallel to the graph of the line $4x + 2y = 8$

11. Find an equation of the line that has a y-intercept of -1 that is parallel to the graph of the line $x - 3y = 6$

12. Find the equation of the line that has a y-intercept of -4 that is parallel to the graph of the line $y = 6$

WRITING EQUATIONS OF PARALLEL AND PERPENDICULAR LINES

Worksheet 312

Write the slope-intercept form for an equation of the line that passes through the given point and is perpendicular to the graph of each equation.

1. $(4, 2)$, $y = \frac{1}{2}x + 1$

2. $(2, -3)$, $y = -\frac{2}{3}x + 4$

3. $(6, 4)$, $y = 7x + 1$

4. $(-8, -7)$, $y = -x - 8$

5. $(6, -2)$, $y = -3x - 6$

6. $(-5, -1)$, $y = \frac{5}{2}x - 3$

7. $(-9, 5)$, $y = -3x - 1$

8. $(-1, 3)$, $2x + 4y = 12$

9. $(6, -6)$, $3x - y = 6$

10. Find the equation of the line that has a y-intercept of -2 and is perpendicular to the graph of the line $x - 2y = 5$.

11. Find the equation of the line that has a y-intercept of 5 and is perpendicular to the graph of the line $4x + 3y = 8$.