Name _____ Date _____ Class _____

Worksheet 3.R2: Other Forms of Linearity Review | Chapter 3

1. Write an equation in point-slope form and slope intercept form for the line that passes through (–3,–5), slope = 2

1.
Point-Slope: _____

Slope Intercept: _____

2. Write an equation in point-slope form and slope intercept form for the line that passes through (1, –1) and (2, 0)

2.
Point-Slope: _____

Slope Intercept: _____

3. Write an equation in point-slope form and slope intercept form for the line that passes through (6, –6), with a slope of 5

3.
Point-Slope: _____

Slope Intercept: _____

4. Write an equation in point-slope form and slope intercept form for the line that passes through (–5, 9) and (1,3)

4.
Point-Slope: _____

Slope Intercept: _____

5. Write an equation in point-slope form and slope intercept form for the line that passes through (0, 1) and (2,5)

5.
Point-Slope: _____

Slope Intercept: _____

6. Solve for *y* and *x* given the following information:

$y = (-x) - 3$

$y = 3x$

6.
y = _____

x = _____

7. Solve for *y* and *x* given the following information:

$y = x + 20$

$y = 6x$

7.
y = _____

x = _____

8. Solve for *y* and *x* given the following information:

$y = x - 4$

$y = 2x$

8.
y = _____

x = _____

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Worksheet 3.R2: Other Forms of Linearity Review | Chapter 3

9. State the *x*- and *y*-intercepts of the function:

$-\frac{1}{4}x - \frac{1}{3}y = 12$

9.
x-intercept = _____

y-intercept = _____

10. State the *x*- and *y*-intercepts of the function:

$x + y = 1$

10.
x-intercept = _____

y-intercept = _____

11. State the *x*- and *y*-intercepts of the function:

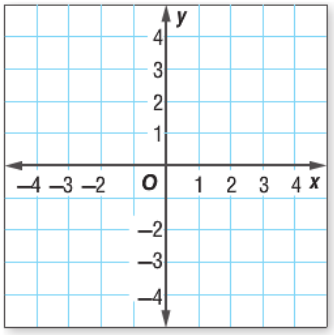
$6x + 2y = -18$

11.
x-intercept = _____

y-intercept = _____

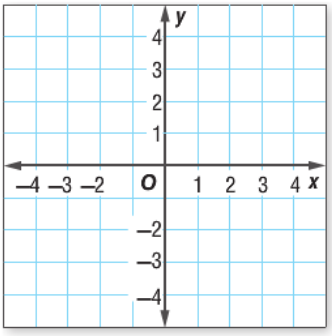
Solve each system of equations by graphing.

12. $y = 2x$
$y = x + 1$



13. $y = x + 3$

$y = -2x - 3$



14. $y - 6 = 2x$

$y = 2(x + 1) + 4$