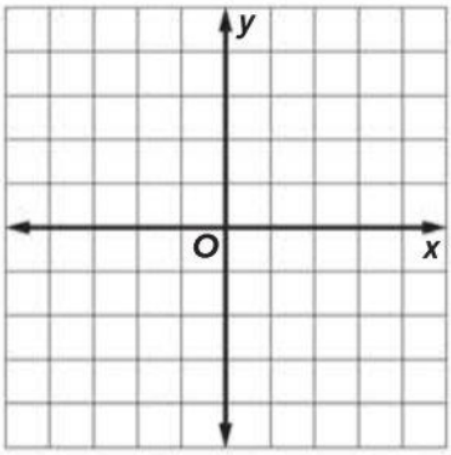
Name: _____ No work No credit Date: _____

CW # 2-1: Algebra 1 - Sections 4-1 to 4-5 20 points

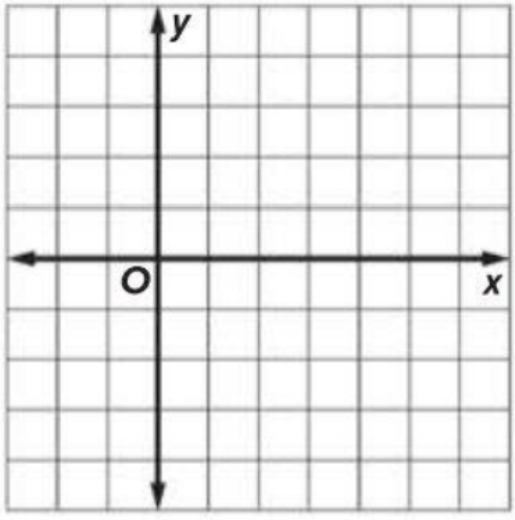
1. Graph by making a table of values: 2x + 3y = 6

x	y



2. **Graph each equation by using the *x*-and *y*-intercepts.**

$$x - 5y = 5$$



Name: _____ No work No credit Date: _____

CW # 2-1: Algebra 1 - Sections 4-1 to 4-5 20 points

3. **Find the slope of the line that passes through each pair of points.**

a. $(9, 4), (5, -3)$

b. $(0, 5), (5, 5)$

4. **Determine whether the function is linear. If it is, state the rate of change.**

x	-7	-5	-3	-1	0
y	11	14	17	20	23

5. **Find the value of r so the line that passes through each pair of points has the given slope.**

$(-2, 8), (r, 4), m = -\frac{1}{2}$

Name: _____ No work No credit Date: _____

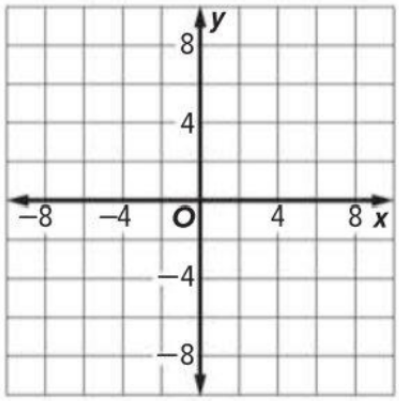
CW # 8: Algebra 1 - Sections 4-1 to 4-5 20 points

6. **Write an equation of a line in slope-intercept form with the given slope and *y*-intercept.**

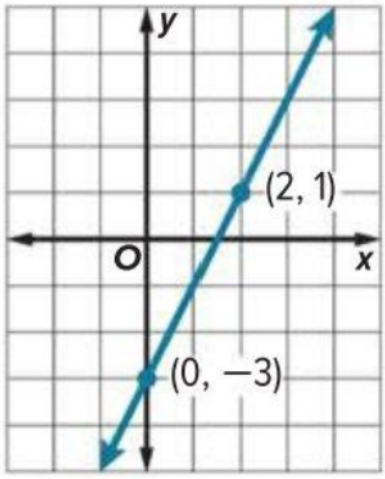
slope: $\frac{2}{3}$, *y*-intercept: -5

7. Write the equation in slope intercept form and graph the equation.

$-3x + y = 6$



8. **Write an equation in slope-intercept form for each graph shown.**



Name: _____ No work No credit Date: _____

CW # 2-1: Algebra 1 - Sections 4-1 to 4-5 20 points

9. **CONSTRUCT ARGUMENTS** **Determine whether each sequence is an arithmetic sequence. Justify your argument.**

$-5, -3, -1, 1, \ldots$

10. **Write an equation for the *n*th term of each arithmetic sequence.**

$-7, -4, -1, 2, \ldots$