Algebra I NAME:_____

5.7 Worksheet #1 DATE:_____ HOUR:____

Standard form of an equation.

Write each equation in standard form (Ax + By = C). Show your work.

1. $3y + x - 5 = 0$

2. $y = 2x - 4$

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

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

Write each equation in slope-intercept form (y = mx + b). Show your work.

5. $4x + 3y = 5$

6. $5x + 2y = 3$

7. $-4x + 3y = 2$

8. $-6x + 5y = -6$

Find the x- and y- intercepts of each equation.

9. $3x + y = 6$

x	y
0	
	0

← y-int.

x-int. →

10. $-5x + y = 10$

x	y
0	
	0

11. $x - 2y = 8$

x	y
0	
	0

12. $x + 3y = -6$

x	y
0	
	0

Algebra I
5.7 Worksheet #1
Transforming Linear equations

NAME:_____
DATE:_____ HOUR:____

Complete the chart. Show your work.

	Slope-Intercept Form	**Point-Slope Form when x = 2**	**Standard Form**
1.	$y = 3x - 2$	m = (2,)	
2.		$y + 7 = -1(x - 2)$	
3.		m = (2,)	$8x + 4y = 16$
4.	$y = -4x + 12$	m = (2,)	
5.		$y - 4 = 5(x - 2)$	
6.		m = (2,)	$25x + 5y = 20$

Algebra I
5.7 Worksheet #2
Transforming Linear equations

NAME:_____
DATE:_____ HOUR:____

Complete the chart. Show your work.

	Slope-Intercept Form	**Point-Slope Form when x = 1**	**Standard Form**
1.	$y = 3x - 4$	m = (1,)	
2.		$y + 7 = -1(x - 1)$	
3.		m = (1,)	$8x + 2y = 16$
4.	$y = -4x + 2$	m = (1,)	
5.		$y - 4 = 5(x - 1)$	
6.		m = (1,)	$25x + 5y = 30$

Complete the chart. Show your work.

	Slope-Intercept Form	**Point-Slope Form when x = 1**	**Standard Form**
7.	$y = 7x - 12$	m = (1,)	
8.		$y + 4 = -1(x - 1)$	
9.		m = (1,)	$8x - y = 16$
10.	$y = -2x + 10$	m = (1,)	
11.		$y - 5 = -3(x - 1)$	
12.		m = (1,)	$40x + 5y = 20$
13.		m = (1,)	$32x - 8y = 24$