OTHER FORMS OF LINEAR EQUATIONS

DIFFERENT FORMS OF LINEAR EQUATIONS:

Slope-Intercept Form	Point-Slope Form	Standard Form
$y=m\times+b$ $(0,\#)$	$y-y_1=m(x-x_1)$	Ax+By=C
y=mx+b (0,#) (y-intercept slope	slope (x,, y,) Any point!	A,B,C are integers
Fv: v= 3		Ex: 3x-6y=12
7 <u>7</u> X - 1	$exists y-3=\frac{1}{2}(x+4) = \frac{m-\frac{1}{2}}{(-4,3)}$	·
	point	

Example 1) y - 5 = -2(x - 4)

- a) Graph the line.
- b) Transform the equation to slope-intercept form.
- c) Transform the equation to standard form.

Graphing in Pt-Slope form: Part b)

- 2) Graph point
- 2) Graph point

 3) Graph additional

 points ul slope

 (4,5) m = -2

 Part C)
- 1) (4,5) m=-2 Part C)
- 2) see graph 3) "

1) use slope into form y = -2x + 13 (move x + 0 same side as y) 2x + y = 13

Example 1) $y + 6 = \frac{2}{5}(x + 1)$

- d) Graph the line.
- e) Transform the equation to slope-intercept form.

Part a)

f) Transform the equation to standard form.



See graph

b) $y+b=\frac{2}{5}(x+1)$ c) $y=\frac{2}{5}x-\frac{28}{5}$

$$y = \frac{2}{5}x + \frac{2}{5} - 6$$

$$y = \frac{2x}{5} + \frac{2}{5} - \frac{30}{5}$$

$$y = \frac{2}{5}x - \frac{20}{5}$$

c)
$$y = \frac{2}{5}x - \frac{28}{5}$$







