6.6 General Form of the Equation for a Linear Relation

$$y = mx + b$$

Y = mx + b slope-intercept form /

$$y-y_1 = m(x-x_1)$$
 slope-point form $\sqrt{}$

$$Ax + By + C = 0$$
 General form whole # integers.

Ex.# Write each equation

(a.)
$$y = \left(-\frac{1}{4}x + 3\right)xy$$

in general form
$$(b.) (y+2) = \frac{3}{2}(x-4)$$

$$\frac{4y = -4x + 12}{4}$$

$$2x + 4 = 3(x - 4)$$

$$\frac{4y = -|x+|2}{+|x-|2}$$

$$0 = 3x - |2 - 2y - M|$$

$$0 = 3x - 2y - 16$$

$$1x + 4y - 12 = 0$$

Ex.#2 Determine the X- and y- intercepts of the line: slope?

$$X + 3y + 9 = 0$$

$$x$$
-intercept
substitute y =0
solve for x

ve-unite in slope-intercept form.

calm for 11

solve for x	solve for y	form.
,		solve for y
x + 3(0) + 9 = 0	0+3y+9=0	′
x + 0 + 9 = 0	-d -9	x + 3y + 9 = 0 -x -9 -x -9
-19 -9	By = -9	-x -9 $-x$ -9
x = -9	3	3y = -x - 9
	y = -3	3/ 3
(-9,0)	, , , , , , , , , , , , , , , , , , ,	
•	(0, -3)	$V = -\frac{1}{3}\chi - \frac{9}{3}$
	ť	<u> </u>
		$\gamma = -1 \times -3$
		1 3
	A 12 1- 10 22	
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10		3