# **STANDARD FORM OF AN EQUATION OF A LINE**

#### **STANDARD FORM**

Standard form of a linear equation is written in the form of

$$Ax + By + C = 0$$

### Graphing from standard form is trickier than graphing from slope, y-intercept form

**SO...**You can change a standard form equation into slope y-intercept form by rearranging the equation to look like \_\_\_\_\_.

**Example:** Change 3x+2y-6=0 to slope y-intercept form. What is the slope & y-int?

#### Rearrange the following equations from standard form to slope, y-intercept form.

a) x + y - 3 = 0 b) x - y = 0 c) -2x + 5y - 15 = 0

m=	b=	m=	b=	m=	b=
	-		-		-

## CHANGE FROM STANDARD FORM TO SLOPE Y-INTERCEPT FORM, THEN GRAPH

For each of the following questions:

- a) Rewrite the standard form equation in Slope y-intercept form (y = mx + b) and
- b) State the slope and y-intercept
- c) Graph and label the line



m = \_\_\_\_\_ b = \_\_\_\_\_