Rewrite equation into Slope-Intercept Form Cue Card – with examples

GOAL: Get equation into Slope-Intercept Form: y = mx + b

General Rules:				
Step 1:	Is there an x-term or constant on the same side as y?			
	Yes; use inverse operations to undo the x-term or constant & go to Step 2 "NO"	No; Move to step 2		
Step 2:	ep 2: Is the equation arranged in the general format of "y = mx + b"?			
	Yes; Move to step 3	No; Arrange the terms to be in the general form "y = mx+b" (KEEP THE COEFFICIENT and/or SIGN IN FRONT WITH THE TERM)		
Step 3: Does y have a coefficient of POSITIVE 1?				
	Yes; you are done rearranging	No; Divide all terms by the coefficient and rewrite. (Keep as a fraction and simplify or for real world problem a decimal up to 2 places to right)		

Examples: Ex 1.

Step 1: Is there an x-term or constant on the same side as y? ★ Yes; Use inverse operations to undo/go to S2 "NO" No; Move to step 2	-3 + y = 6x + 3 + 3
Step 2: Is the equation arranged in the general format of "y = mx + b"? Yes; Move to step 3 No; Arrange the terms to be in the general form "y = mx+b" (KEEP THE SIGN IN FRONT WITH THE TERM)	y = 6x + 3
Step 3: Does y have a coefficient of positive 1? <u>**</u> Yes; You are done rearranging No; Divide all terms by the coefficient and rewrite.	

Ex 2.	Step 1: Is there an x-term or constant on the same side as y? Yes; Use inverse operations to undo/go to S2 "NO" XNO; Move to step 2	$\frac{-y = -4x + 4}{-1 - 1 - 1}$
	Step 2: Is the equation arranged in the general format of "y = mx + b"? X Yes; Move to step 3 No; Arrange the terms to be in the form "y = mx+b" (KEEP THE SIGN IN FRONT WITH THE TERM)	y = 4x - 4
	Step 3: Does y have a coefficient of positive 1? Yes; You are done rearranging No; Divide all terms by the coefficient and rewrite.	

Ex 3.	Step 1: Is there an x-term or constant on the same side as y? X Yes; Use inverse operations to undo/go to S2 "NO" No; Move to step 2	-12 = -3x + 2y $+ 3x + 3x$
	Step 2: Is the equation arranged in the general format of "y = mx + b"? Yes; Move to step 3 No; Arrange the terms to be in the form "y = mx+b" (KEEP THE SIGN IN FRONT WITH THE TERM)	$\frac{2y = 3x - 12}{2 2 2}$ $y = \frac{3}{2}x - 6$
	 Step 3: Does y have a coefficient of positive 1? Yes; You are done rearranging No; Divide all terms by the coefficient and rewrite. (Keep as a fraction and simplify or for real world problem a decimal up to 2 places to right) 	

Ex 4.	Step 1: Is there an x-term or constant on the same side as y?Yes; Use inverse operations to undo/go to S2 "NO"No; Move to step 2	-2y = 2 - 4x
	Step 2: Is the equation arranged in the general format of "y = mx + b"?	$\frac{-2y = -4x + 2}{-2 -2 -2}$ $y = 2x - 1$
	Yes; Move to step 3	
	No; Arrange the terms to be in the form "y = mx+b" (KEEP THE SIGN IN FRONT WITH THE TERM)	
	Step 3: Does y have a coefficient of positive 1?	
	Yes; You are done rearranging	
	No; Divide all terms by the coefficient and rewrite.	
	(Keep as a fraction and simplify or for real world problem a decimal up to 2 places to right)	

Ex 5: You may need to distribute or combine like terms before starting to rearrange.

