WLE 1A

GRAPHING

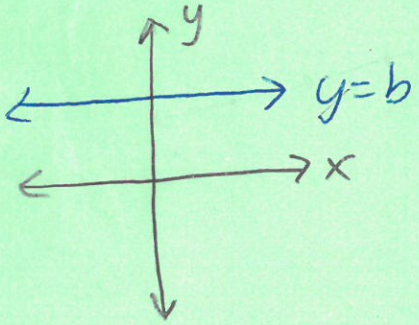
Objective: *Given an equation in slope intercept form students will identify the slope and y-intercept and use these key features to graph the equation of a line.*

SLOPE-INTERCEPT FORM

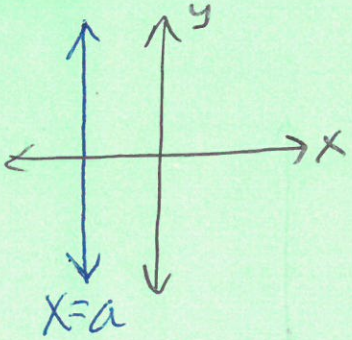
$$y = mx + b$$

m = Slope = $\frac{y_2 - y_1}{x_2 - x_1}$; $x_2 \neq x_1$ y-intercept $(x=0)$

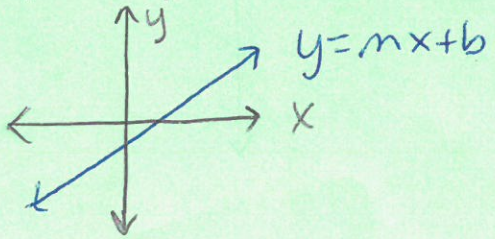
① horizontal line (slope = 0) $y=b$



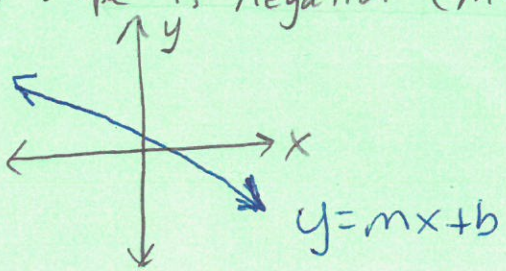
② vertical line (slope is undefined) $x=a$



③ Slope is positive $(m>0)$



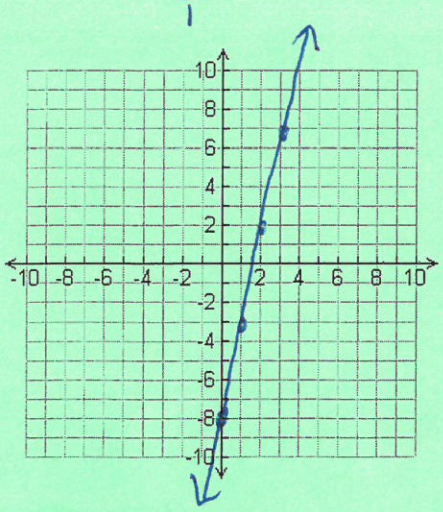
④ Slope is negative $(m<0)$



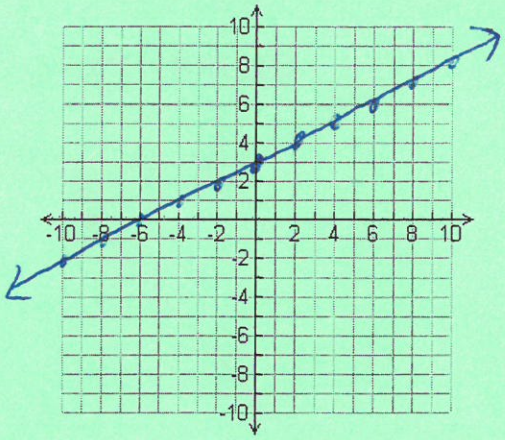
WLE 1A

GRAPHING

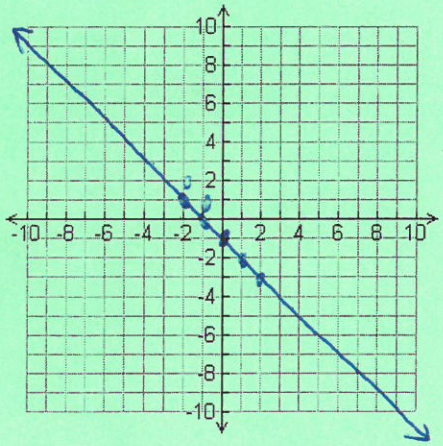
1. $y = \frac{5}{1}x - 8$



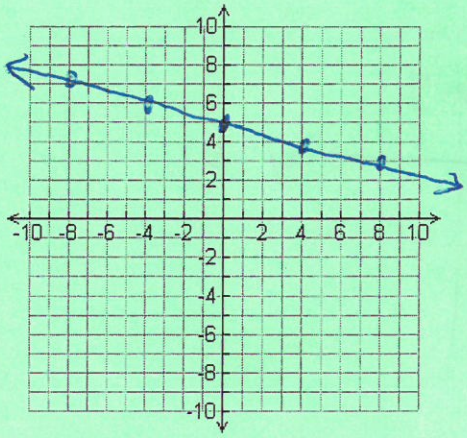
2. $y = \frac{1}{2}x + 3$



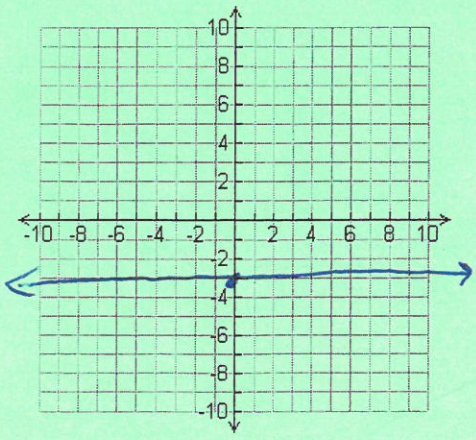
3. $y = -x - 1$



4. $y = -\frac{1}{4}x + 5$



5. $y = -3$



6. $x = 6$