\*Learning Target:

\*Critical Content:

Slope-intercept form –

Where m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Write an equation in slope-intercept form for the described equations. Then graph the equations.**Ex1: A slope of ¾ and a y-intercept of -2 Ex1a: A slope of -1/2 and a y-intercept of 3

y = \_\_\_\_\_\_\_x \_\_\_ \_\_\_\_\_\_ y = \_\_\_\_\_\_\_\_\_x \_\_\_ \_\_\_\_\_\_\_



For the following examples, you need to SOLVE FOR Y FIRST! Put it in slope-intercept form.
Ex2: Graph $3x+2y=6$ Ex2a: Graph $3x-4y=12$



\*If equation is y = c, it is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and has a slope of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\*If equation is x = c, it is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and has a slope that is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Ex3: Graph $y=-3$ Ex3a: Graph $y=5$



Ex4: Write an equation in slope-intercept form for the graph shown.

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

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

y = \_\_\_\_\_\_\_\_x + \_\_\_\_\_\_\_\_\_

Ex5: In 1997 about 2.6 million girls competed in high school sports. This has increased by an average of 0.06 million per year since 1997.

a) Write a linear equation to find the number of girls in sports after 1997.

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

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

y = \_\_\_\_\_\_\_\_x + \_\_\_\_\_\_\_\_\_

b) Graph