Total Score: ____ / 20 Name: _____ Period: _____
[Version A, 25 minutes]

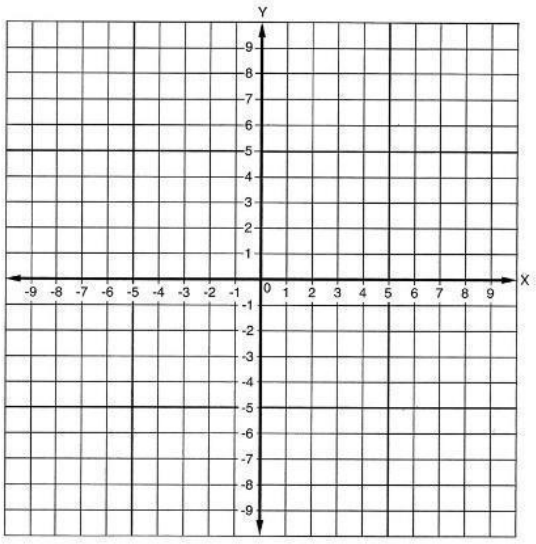
ADVANCED ALGEBRA 1

Unit 2 LTC #1 [LT 2.A-2.B]

[LT 2.A] I can graph and interpret lines in any form. **[LT 2.A] Mastery Score: ___ / 12**

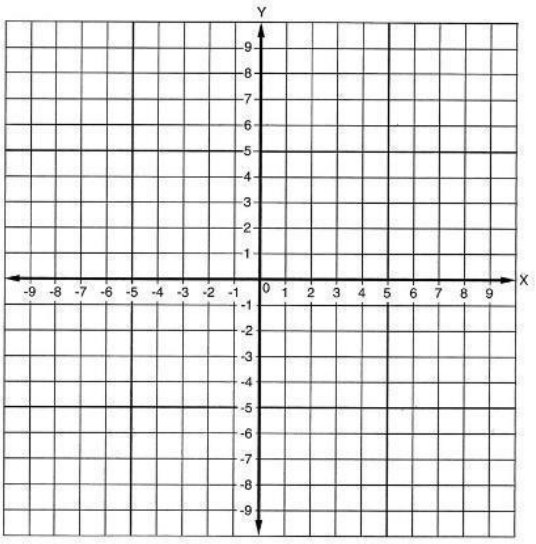
(1 point) [LT 2.A]

1. Graph $y = -2$



(1 point) [LT 2.A]

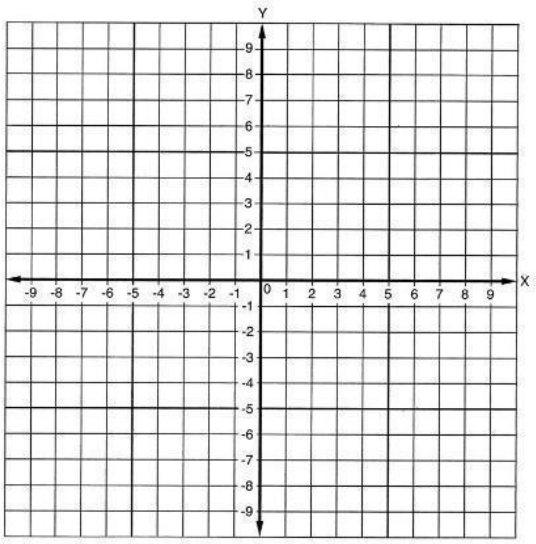
2. Graph $x = 1$



(2 points) [LT 2.A]

3. Graph the function $y = -\frac{3}{4}x - 7$ in the given form without rescaling the graph. Identify the form that the equation is in.

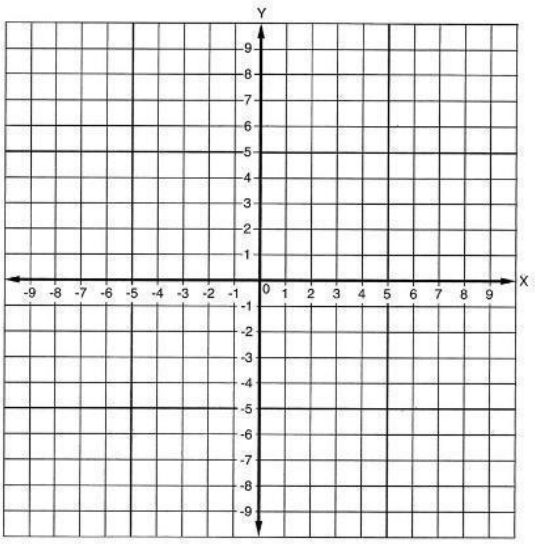
Form: _____



(4 points) [LT 2.A]

4. Graph the function $y + 2 = -\frac{7}{3}(x + 7)$ in the given form without rescaling the graph. Identify the form that the equation is in.

Form: _____



(4 points) [LT 2.A]

5. A football team has an away game, and the bus breaks down. The coaches decide to drive the players to the game in cars and vans. Four players can ride in each car and six players can ride in each van. There are 24 players on the team. The equation $4x + 6y = 24$ models this situation, where x is the number of cars and where y is the number of vans. Graph the equation in the given form, interpret the intercepts. Label your axes and title your graph.

The x-intercept is _____ and it represents _____

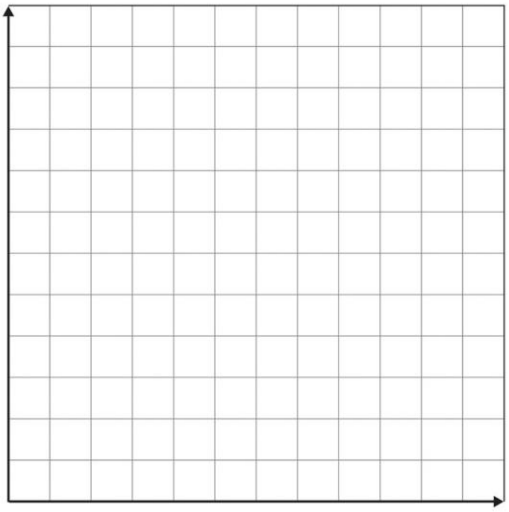
_____

_____

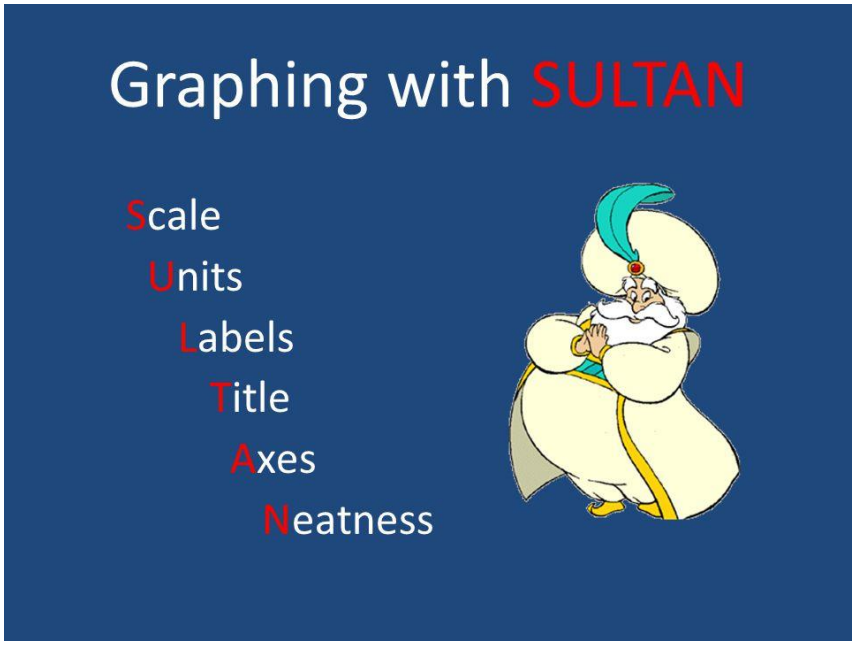
The y-intercept is _____ and it represents _____

_____

_____



In the context of this problem, is $(-3, 6)$ a valid solution? Justify your reasoning.



[LT 2.B] I can write, and interpret linear equations in any form. **[LT 2.B] Mastery Score: ___ / 8**

(3 points) [LT 2.B]

1. Write an equation in <u>standard form</u> that passes through the point $(6,0)$ and has the slope $m = -3$.

(3 points) [LT 2.B]

2. Write an equation, in <u>slope-intercept form</u> through the points $(-7, 5)$ and $(-2, 2)$.

(2 points) [LT 2.B]

3. Write an equation in <u>point-slope form</u> of the line that passes through the given point and is parallel to the given line.

Parallel Line: _____