

Don't forget to assess yourself!

Name: \_\_\_\_\_ Hour: \_\_\_\_\_

Standard: A-CED.2 & 8.EE.8c. Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.

Standard: A-CED.3 Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context.

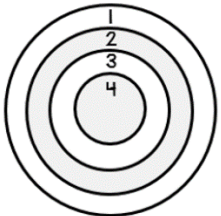
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**The Normal Theater holds 385 people, and last night's performance sold out! Children under the age of 17 paid \$3 per ticket, while adults paid \$5 per ticket. Last night's show brought in \$1601.**

- 1.) Define your variables.
- 2.) Write a system of equations to represent the given information.

3.) How many children tickets were sold?

4.) How many adult tickets were sold?



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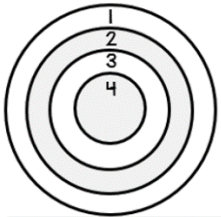
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Standard: A-REI.5. Prove that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions.

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Directions: Solve the system using the method indicated.

1.) Solve using substitution.

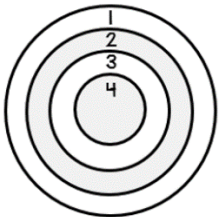
$$7x - 8y = 112$$

$$y = -2x + 9$$

2.) Solve by elimination

$$3x - 10y = -25$$

$$4x + 40y = 20$$



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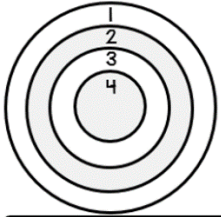
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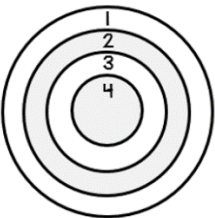
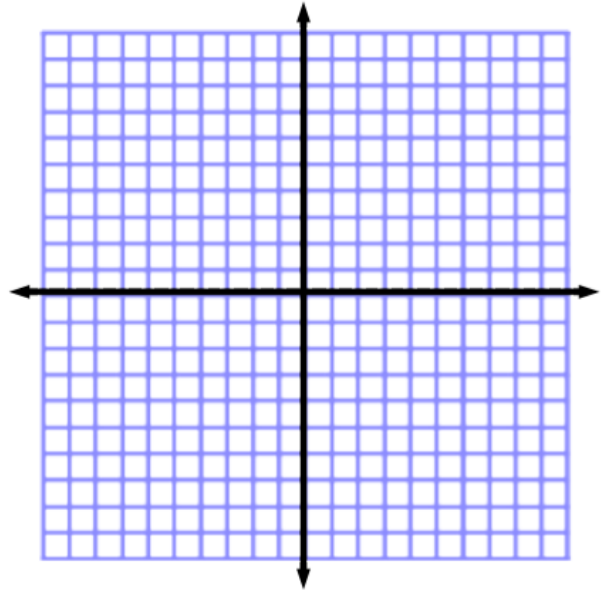
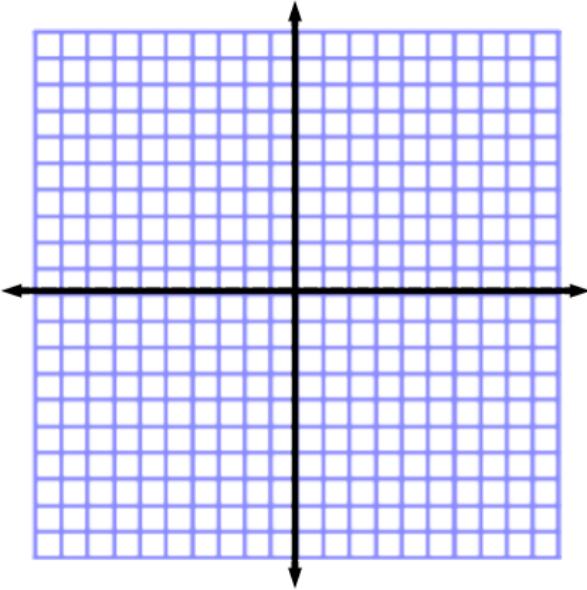
Standard: A-REI.6. & 8.EE.8b Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.

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1.)  $y = x + 2$   
 $y = -2x + 2$

2.)  $x + 2y = 10$   
 $2x + 4y = 10$



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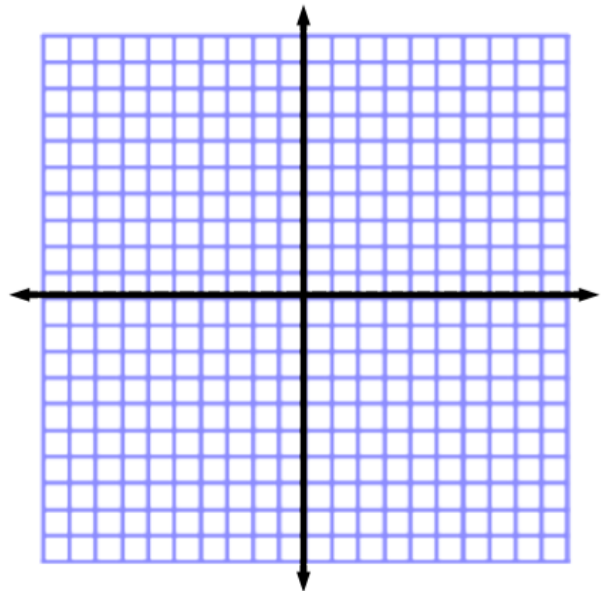
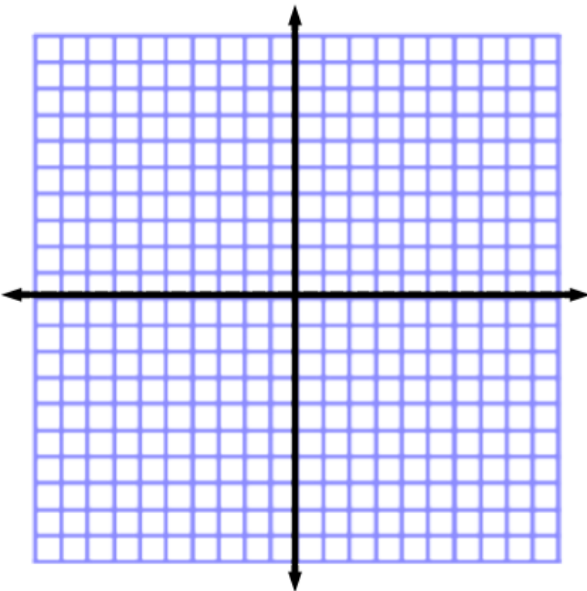
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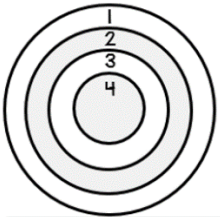
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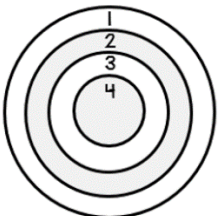
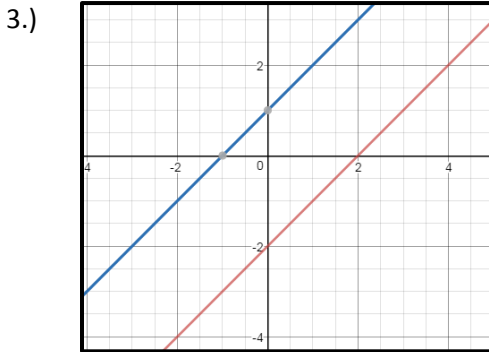
Standard: G.PE.5 Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point).

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Directions: Describe what characteristics you know about the graphs of the equations.

- 1.) When solved algebraically, I get no solution.
- 2.) When solved algebraically, I get infinitely many solutions.

Directions: Describe what you know about the equations of the lines based off the graph.



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