Algebra 1 – Module 7 Test PRACTICE

Name: _____

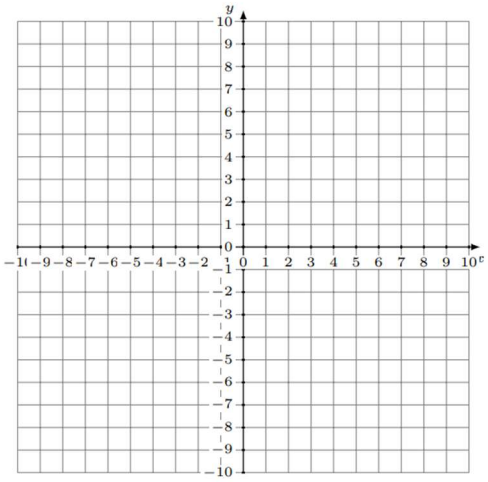
Class Period: _____

Answer each question, making sure to SHOW ALL OF YOUR WORK in the space provided. You must use the indicated method to earn full credit. Take the time to check your work. Write neatly.

1. Solve the system of linear equations by graphing.

$$3x + 5y = 10$$

$$x - 5y = -10$$



Solution: (,)

2. Solve the linear system using substitution.

$$3x - y = -7$$

$$y = 4x + 11$$

Solution: (,)

3. Solve the linear system using substitution.

$$5x + 3y = 5$$

$$x + 2y = -13$$

Solution: (,)

4. Solve the linear system using elimination.

$$3x - 5y = 11$$

$$5(x + y) = 7$$

Solution: (,)

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5. Solve the linear system using elimination.

$$13x + 14y = -22$$

$$4x + 7y = 37$$

Solution: (,)

6. Four times a number minus twice another number equals -16. The sum of the two numbers is -1. Write a system of equations to represent this scenario, then solve the system using your preferred method.

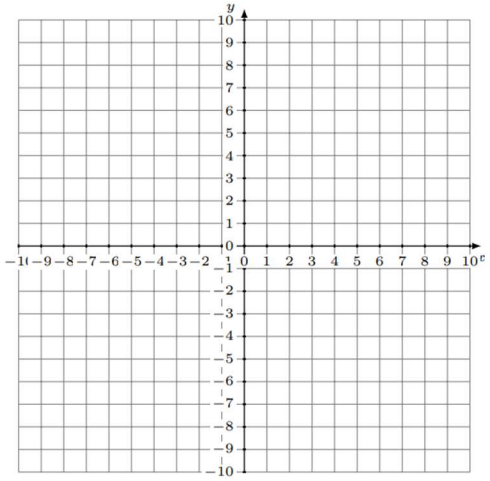
7. The St. Charles Cardinal's football team scored a total of 35 separate times this season, with a mix of touchdowns and field goals. Each touchdown is worth 7 points, and each field goal is worth 3 points. If the team scored a total of 193 points this season, how many touchdowns and field goals did they score?

Write and solve a system of equations to find your answer.

8. Solve the system of inequalities by graphing. Then list three possible solutions for the system.

$$\frac{1}{3}x + 2 < y$$

$$x \geq -3$$



Possible Solutions: (,) (,) (,)