

Algebra II Examination Two Review

Use the substitution method. Show all your work.

$$1. \begin{cases} y = 5 - 4x \\ 2x - 3y = 13 \end{cases}$$

$$2. \begin{cases} 4x - 3y = 26 \\ x - y = 7 \end{cases}$$

$$3. \begin{cases} 3x + y = 5 \\ x - 2y = 4 \end{cases}$$

$$4. \begin{cases} x + y = 5 \\ 2x - y = 4 \end{cases}$$

Use the elimination method. Show all your work.

$$5. \begin{cases} 2x + 6y = -8 \\ 5x - 3y = 88 \end{cases}$$

$$6. \begin{cases} 9x + 3y = -3 \\ 2x - 3y = -8 \end{cases}$$

$$7. \begin{cases} 4x - 9y = 26 \\ 4x - 5y = 2 \end{cases}$$

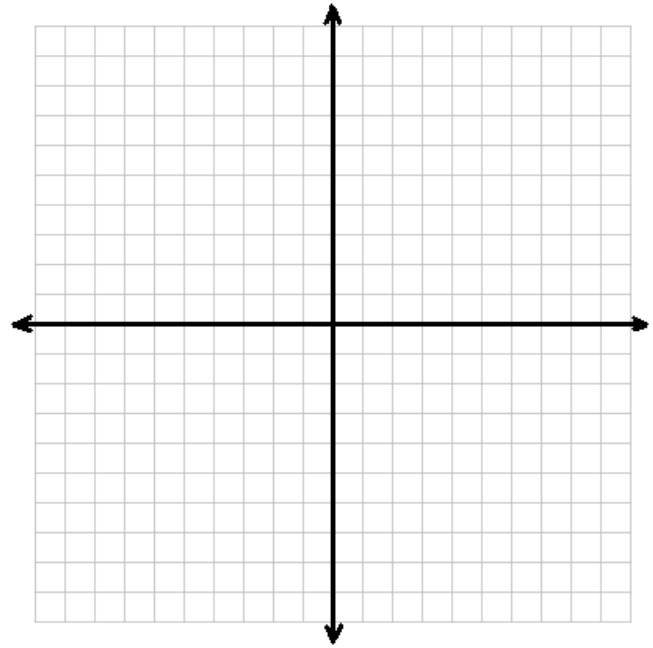
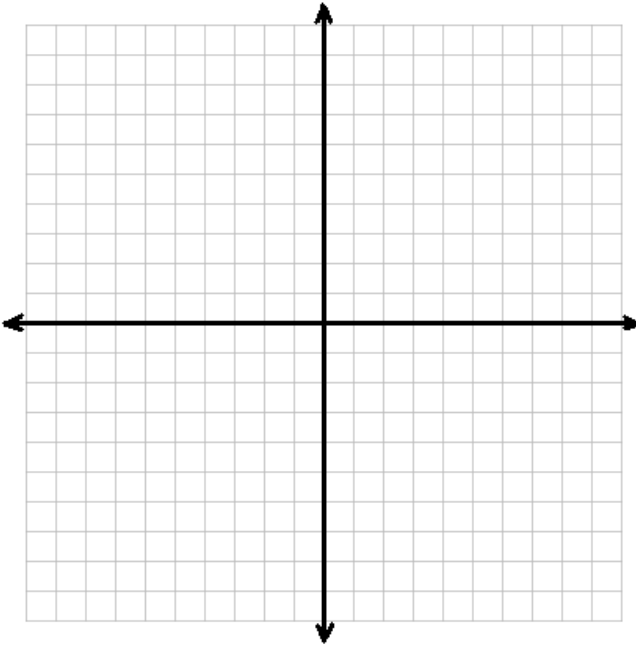
$$8. \begin{cases} y + 1 = x \\ -2x + 3y = 2 \end{cases}$$

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In problems 9 and 10, solve the system graphically.

$$9. \begin{cases} y = -5x - 2 \\ 3x = y - 5 \end{cases}$$

$$10. \begin{cases} 2x + 2y = 4 \\ 3x - y = 1 \end{cases}$$



In problems #11-12, classify each system and determine the number of solutions.

$$11. \begin{cases} 4y - x = -24 \\ 3x = 12y + 72 \end{cases}$$

$$12. \begin{cases} 10x - 2y = 22 \\ 5y - 25x = 65 \end{cases}$$