

Name _____ Formative Solving Non Linear Systems through Elimination and Substitution Period _____

1. ALGEBRAICALLY determine the solutions to the given non-linear systems
2. CONFIRM answers using a graphing calculator

$$4(x - 2)^2 + (y - 4)^2 = 16$$

$$y = -2x + 4$$

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$$(x - 4)^2 + (y - 2)^2 = 16$$

$$x + 2y = 4$$

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$$(x + 1)^2 + (y - 2)^2 = 4$$
$$2x + y = 4$$

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$$(x - 1)^2 + (y + 2)^2 = 10$$
$$x + y = 1$$

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$$\begin{aligned}(x - 5)^2 + (y - 4)^2 &= 16 \\ x + y &= 5\end{aligned}$$

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$$\begin{aligned}(x - 5)^2 + (y - 4)^2 &= 16 \\ x - y &= 5\end{aligned}$$

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$$\begin{aligned}(x - 2)^2 + (y + 3)^2 &= 4 \\ x - y &= 3\end{aligned}$$

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$$\begin{aligned}(x - 1)^2 + (y - 1)^2 &= 5 \\ x + 2y &= 0\end{aligned}$$