

Warm-Up

Graph $y = \frac{3}{2}x + 4$

Graph $y = (x-3)^2 + 2$

Jan 9-12:08 PM

5-2

Solving a system of linear and quadratic equations graphically

Objective: I can solve a system of linear and/or quadratic equations graphically

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When solving a system of linear equations graphically, what did the SOLUTION look like?

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Nov 12-11:33 AM

When solving a system of linear AND quadratic equations, what might the possible solutions look like?

2 solutions

1 solution

No soln

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Find the real solutions of the given system by graphing:

$$\begin{cases} y = x^2 \\ y = \frac{2}{1}x \end{cases}$$

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Find the real solutions of the given system by graphing:

$$\begin{cases} y = x^2 + 4x + 7 & (x+2)^2 + 5 \\ y = 2x + 1 \end{cases}$$

No Solution

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Find the real solutions of the given system by graphing:

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

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When solving a system of 2 quadratic equations, what might the possible solutions look like?

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Find the real solutions of the given system by graphing:

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

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Find the real solutions of the given system by graphing:

$$\begin{cases} y = x^2 + 2 \\ y = -x^2 + 2x + 2 \end{cases}$$

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Find the real solutions of the given system by graphing:

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

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