

Name: _____

Date: _____

Think

Solve this system of equations. Pick any method you'd like (linear combination, substitution, or graphing) and explain why you choose this method.

1. $4x - 3y = 11$

2. $y = -4x - 1$

Does your answer change if the second equation is: $4x + y = -1$? What method would you use if this was the second equation and why?

Talk

- a. Graphing:
- 1st equation- just find slope and y-intercept and graph
 - 2nd equation is already in y-int form, so easy to graph
- b. Graphing
- Standard form: just find slope and y-intercept and graph

Talk Idea

- a. Substitution:
- 2nd equation is y= form so I can use easily substitute that in for the y in the 1st equation
- b. Substitution
- Change into y-intercept form and then it's easy to substitute

Talk Idea

- a. Linear combination:
- X-coefficient is 4, so you can rearrange the 2nd equation into standard form and multiply by (-1) and it's easy to combine
- b. Linear Combination
- Both in standard form, so just multiply 2nd equation by (-1) and then you can easily add them and get rid of y

We Understand

- You can solve systems using ANY method
- Some methods may be easier/faster to use
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