

PRT:) Find the value of each symbol in the system below.

Notes:

$$\text{D} + \text{D} - 1 = \text{★}$$

$$\text{D} + \text{★} + \text{★} = 8$$

Solve using Substitution

- 1) Isolate any _____.
- 2) Take the _____ that variable is _____ and _____ that expression into the other equation for the variable.
- 3) _____ for the remaining variable.
- 4) Take the _____ you got for the variable and plug it in to either _____ to solve for the other _____.
- 5) List your answer as an _____.

Ex:) Solve the system by substitution. Check your solution.

Notes:

$$y = 2x - 4$$

$$7x - 2y = 5$$

OYO:) Solve the system by substitution. Check your solution.

Notes:

$$x = 5y + 3$$

$$2x + 4y = -1$$

Ex:) In the following systems, determine which variable is the simplest to isolate. Explain why.

$$5x + y = -4$$

$$2x - 3y = -11$$

$$-7x + 6y = 14$$

$$-x + 3y = -8$$

$$18x + 2y = -10$$

$$-5x + 3y = -15$$

Ex:) Solve the system using substitution. Check your solution.

Notes:

$$-2x + 6y = 6$$

$$-7x + 8y = -5$$

OYO:) Solve the system using substitution. Check your solution.

Notes:

$$-5x - 8y = 17$$

$$2x - 7y = -17$$

Modeling Real Life

Ex:) You are planning a birthday party. You buy a total of 50 turkey burgers and veggie burgers for \$90.00. You pay \$2.00 per turkey burger and \$1.50 per veggie burger. How many of each burger do you buy?

Notes:



OYO:) To stock your school store, you buy a total of 25 sweatshirts and hats for \$172.50. You pay \$8.00 per sweatshirt and \$2.50 per hat. How many of each item do you buy?

Notes: