

Foundations of Math 1 – Unit 3 Systems of Equations
Review – Part 1: No Calculator

Solve each system by the indicated method. Show all work and state your solution.

1. Graphing.

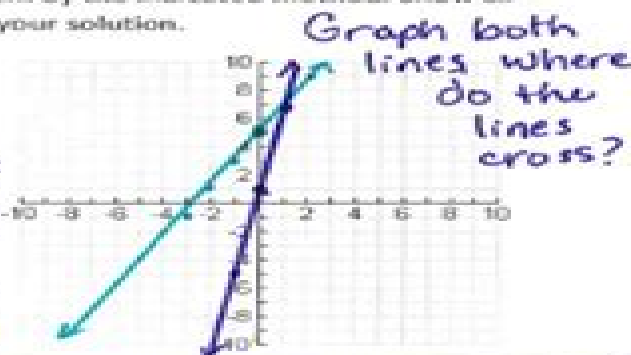
$$y = 2x + 5$$

$$-6x + y = 1$$

$$+6x \quad +6x$$

$$y = 6x + 1$$

$$(1, 7)$$



2. Substitution.

$$y = 3x$$

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

$$y = 3(-1)$$

$$y = -3$$

$$(-1, -3)$$

$$2x + 3(3x) = -11$$

$$2x + 9x = -11$$

$$\frac{11x}{11} = \frac{-11}{11}$$

$$x = -1$$

3. Elimination.

$$3x + 10y = -3$$

$$-2(2x + 5y = 3)$$

Multiply the bottom equation by -2

$$(9, -3)$$

$$\begin{array}{r} 3x + 10y = -3 \\ -4x - 10y = -6 \\ \hline -1x = -9 \end{array}$$

$$x = 9$$

$$\begin{array}{r} 3(9) + 10y = -3 \\ 27 + 10y = -3 \\ -27 \quad -27 \\ \hline 10y = -30 \\ \frac{10y}{10} = \frac{-30}{10} \\ y = -3 \end{array}$$

4. Write and solve the system of equations:

"The difference of two numbers is 4. The sum of the same two numbers is 24."

$$\begin{array}{r} x - y = 4 \\ x + y = 24 \\ \hline 2x = 28 \\ \frac{2x}{2} = \frac{28}{2} \end{array}$$

$$(14, 10)$$

$$\begin{array}{r} 14 - y = 4 \\ -14 \quad -14 \\ \hline -y = -10 \\ \frac{-y}{-1} = \frac{-10}{-1} \\ y = 10 \end{array}$$

5. Solve the system. What is the value of $x + y$:

$$\begin{array}{r} +x + y = +11 \\ 2x + y = 19 \end{array}$$

$$\frac{3x}{3} = \frac{30}{3}$$

$$x = 10$$

change signs on either row!

$$\begin{array}{r} 2(10) + y = 19 \\ 20 + y = 19 \\ -20 \quad -20 \\ \hline y = -1 \end{array}$$

$$10 + (-1) = 9$$

6. Solve by substitution:

$$y = x + 2$$

$$3x + y = 12$$

$$y = 0 + 2$$

$$y = 2$$

$$(0, 2)$$

$$\begin{array}{r} 3x + 6(x + 2) = 12 \\ 3x + 6x + 12 = 12 \\ 9x + 12 = 12 \\ -12 \quad -12 \\ \hline 9x = 0 \\ \frac{9x}{9} = \frac{0}{9} \\ x = 0 \end{array}$$

7. If the following system was solved by elimination, the first equation was multiplied by 3, what would the 2nd equation have to be multiplied by to eliminate y ?

$$\begin{array}{r} 3(3x - 5y = -2) \quad 9x - 15y = -2 \\ x + 3y = 4 \end{array}$$

multiply by 5

8. Suppose you add two linear equations that form a system, and you get the result shown below. How many solutions does the system have?

a. $y = 12 \rightarrow$ one solution

b. $0 = 5 \rightarrow$ no solution

c. $3 = 3 \rightarrow$ infinitely many solutions

Add straight down!

Systems Of Equations And Inequalities Test

Michael Smith



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