

Infinite and No Solutions

Infinite Solutions – If you get to the end of the problem and you have a true statement saying that two numbers are equal to each other, there are infinite solutions.

ex) $6x - 6x + 4 = 4$

No Solutions – If you get to the end of the problem and you have a FALSE statement saying that two numbers are equal to each other, there are no solutions.

ex) $6x - 6x + 3 = 4$

Solve the following systems and decide if there are infinite or no solutions.

13) $y = 3x + 1$
 $y = 3x - 9$

14) $y = 5x - 1$
 $y + 1 = 5x$

15) $4x = y$
 $4x - y = 4$

16) $5x = y$
 $5x - y + 1 = 1$

17)

$$x = 7y$$

$$y + 2x = 15x$$

18)

$$y = 6x$$

$$3x + 2y - 1 = 15x$$

19)

$$6x = 2y$$

$$y = 3x - 4$$

20)

$$y = 6x$$

$$2y - 1 = 12x - 1$$