

Equations with Infinite and No Solutions

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Solve each equation.

1) $6x + 3 - 6x = 3$

2) $0 = -4p + 4p$

3) $1 = 5 + p - p$

4) $a - a = -5$

5) $0 = 4x - 4x$

6) $7 = 6 - 4r + 4r$

7) $154 = -4(8 + 6r) + 24r$

8) $-28 = -7(3x + 4) + 21x$

Solve each equation.

9) $-(-4x + 7) = -2 + 4x$

10) $4(8n - 1) = 19 + 32n$

11) $-(n - 6) - 8 = -(1 + n)$

12) $8(k - 6) + 58 = 2(4k + 5)$

13) $4(m - 1) + 5 = -(1 - 4m)$

14) $-6(k + 1) = -3 - (6k + 3)$

Determine if the equation has one, none or infinite solutions.

15) $-21 - 8a = -1 + 6(4 - 5a)$

16) $-7p - 12 = -4p + 3(-4 - p)$

17) $-11 + x = -7x - 8(-x + 1)$

18) $33 + 6x = 3(-1 + 5x)$

19) $-5(x - 1) = 5 - 5x$

20) $12 + 4n = 4(n + 3)$

21) $208 = 8(1 + 5x)$

22) $4(-4 - 8m) + 28m + 4m = -272$

23) $93 + 12m = 3(4m - 1) + 96$

24) $267 = 5(8n + 4) + 7$

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Infinite Solutions

2) $0 = -4p + 4p$

Infinite Solutions

3) $1 = 5 + p - p$

No solution.

4) $a - a = -5$

No solution.

5) $0 = 4x - 4x$

Infinite Solutions

6) $7 = 6 - 4r + 4r$

No solution.

7) $154 = -4(8 + 6r) + 24r$

No Solution

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Infinite Solutions

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No solution.

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Infinite Solutions

$$13) 4(m - 1) + 5 = -(1 - 4m)$$

No solution.

$$14) -6(k + 1) = -3 - (6k + 3)$$

Infinite Solutions

Determine if the equation has one, none or infinite solutions.

$$15) -21 - 8a = -1 + 6(4 - 5a)$$

One Solution, $a = 2$

$$16) -7p - 12 = -4p + 3(-4 - p)$$

Infinite Solutions

$$17) -11 + x = -7x - 8(-x + 1)$$

No solution.

$$18) 33 + 6x = 3(-1 + 5x)$$

One Solution, $x = 4$

$$19) -5(x - 1) = 5 - 5x$$

Infinite Solutions

$$20) 12 + 4n = 4(n + 3)$$

Infinite Solutions

$$21) 208 = 8(1 + 5x)$$

One Solution, $x = 5$

$$22) 4(-4 - 8m) + 28m + 4m = -272$$

No Solution

$$23) 93 + 12m = 3(4m - 1) + 96$$

Infinite Solutions

$$24) 267 = 5(8n + 4) + 7$$

One Solution, $n = 6$