

Solving Equations with Special Cases

Solve each equation.

1) $-7p + 5(-8 + 3p) = -40 + 8p$

Handwritten work:

$$\begin{array}{r} -7p - 40 + 15p \\ \hline 8p - 40 = -40 + 8p \\ -8p \quad \quad -8p \\ \hline -40 = -40 \\ \text{Infinite Solutions} \end{array}$$

2) $-4(x - 7) = 20 - 4x$

Handwritten work:

$$\begin{array}{r} -4x + 28 = 20 - 4x \\ \hline 28 = 20 \\ \text{No Solutions} \end{array}$$

3) $-4x - 13 = -6(x + 3) + 2x$

4) $32 + 4a = 4(a + 8)$

5) $40 + 4m = -3(m + 3)$

6) $-35 - 5n = -8(-1 + 6n)$

7) $4x + 24 = 3(1 - x)$

8) $8(x - 7) - 3x = -32 - 3x$

9) $-4 - 7k = -(7k - 1)$

10) $11 + x = 4 - (1 - x)$

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

1. <input type="text"/>	2. <input type="text"/>	3. <input type="text"/>	4. <input type="text"/>	5. <input type="text"/>	6. <input type="text"/>	7. <input type="text"/>	8. <input type="text"/>	9. <input type="text"/>	10. <input type="text"/>
0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
3 3	3 3	3 3	3 3	3 3	3 3	3 3	3 3	3 3	3 3
4 4	4 4	4 4	4 4	4 4	4 4	4 4	4 4	4 4	4 4
5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5
6 6	6 6	6 6	6 6	6 6	6 6	6 6	6 6	6 6	6 6
7 7	7 7	7 7	7 7	7 7	7 7	7 7	7 7	7 7	7 7
8 8	8 8	8 8	8 8	8 8	8 8	8 8	8 8	8 8	8 8
9 9	9 9	9 9	9 9	9 9	9 9	9 9	9 9	9 9	9 9
+	+	+	+	+	+	+	+	+	+
-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	0