

Solve for X.

1) $4x - 3 = -5x - 21$

2) $4x = -3x - 7$

3) $-x = -2x - 1$

4) $5x = -4x + 36$

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

6) $-x + 3 = 4x - 17$

7) $-3x + 2 = -4x + 4$

8) $-5x = 3x + 32$

9) $5x = -3x - 32$

Solve for X.

1) $4x - 3 = -5x - 21$

Answer: -2

2) $4x = -3x - 7$

Answer: -1

3) $-x = -2x - 1$

Answer: -1

4) $5x = -4x + 36$

Answer: 4

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

Answer: 2

6) $-x + 3 = 4x - 17$

Answer: 4

7) $-3x + 2 = -4x + 4$

Answer: 2

8) $-5x = 3x + 32$

Answer: -4

9) $5x = -3x - 32$

Answer: -4

Solution Steps

1) $4x - 3 = -5x - 21$

$4x - 3 = -5x - 21$

$+5x = +5x$

$9x - 3 = -21$

$+3 = +3$

$9x = -18$

$/9 = /9$

$x = -2$

2) $4x = -3x - 7$

$4x = -3x - 7$

$+3x = +3x$

$7x = -7$

$/7 = /7$

$x = -1$

3) $-x = -2x - 1$

$-x = -2x - 1$

$+2x = +2x$

$x = -1$

4) $5x = -4x + 36$

$5x = -4x + 36$

$+4x = +4x$

$9x = 36$

$/9 = /9$

$x = 4$

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

$x + 1 = 3x - 3$

$-3x = -3x$

$-2x + 1 = -3$

$-1 = -1$

$-2x = -4$

$/-2 = /-2$

$x = 2$

6) $-x + 3 = 4x - 17$

$-x + 3 = 4x - 17$

$-4x = -4x$

$-5x + 3 = -17$

$-3 = -3$

$-5x = -20$

$/-5 = /-5$

$x = 4$

7) $-3x + 2 = -4x + 4$

$-3x + 2 = -4x + 4$

$+4x = +4x$

$x + 2 = 4$

$-2 = -2$

$x = 2$

8) $-5x = 3x + 32$

$-5x = 3x + 32$

$-3x = -3x$

$-8x = 32$

$/-8 = /-8$

$x = -4$

9) $5x = -3x - 32$

$5x = -3x - 32$

$+3x = +3x$

$8x = -32$

$/8 = /8$

$x = -4$