

**Solve for X.**

1)  $-2x + 1 = -4x + 9$

2)  $4x + 1 = 5x - 2$

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

4)  $-3x = 5x + 8$

5)  $-5x = 3x + 16$

6)  $4x - 1 = -x + 9$

7)  $x - 4 = -5x - 28$

8)  $-5x = -2x + 6$

9)  $-5x = 2x - 28$

**Solve for X.**

1)  $-2x + 1 = -4x + 9$

Answer: 4

2)  $4x + 1 = 5x - 2$

Answer: 3

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

Answer: -1

4)  $-3x = 5x + 8$

Answer: -1

5)  $-5x = 3x + 16$

Answer: -2

6)  $4x - 1 = -x + 9$

Answer: 2

7)  $x - 4 = -5x - 28$

Answer: -4

8)  $-5x = -2x + 6$

Answer: -2

9)  $-5x = 2x - 28$

Answer: 4

**Solution Steps**

1)  $-2x + 1 = -4x + 9$

$-2x + 1 = -4x + 9$

$+4x = +4x$

$2x + 1 = 9$

$-1 = -1$

$2x = 8$

$/2 = /2$

$x = 4$

2)  $4x + 1 = 5x - 2$

$4x + 1 = 5x - 2$

$-5x = -5x$

$-x + 1 = -2$

$-1 = -1$

$-x = -3$

$/-1 = /-1$

$x = 3$

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

$-4x = -x + 3$

$+x = +x$

$-3x = 3$

$/-3 = /-3$

$x = -1$

4)  $-3x = 5x + 8$

$-3x = 5x + 8$

$-5x = -5x$

$-8x = 8$

$/-8 = /-8$

$x = -1$

5)  $-5x = 3x + 16$

$-5x = 3x + 16$

$-3x = -3x$

$-8x = 16$

$/-8 = /-8$

$x = -2$

6)  $4x - 1 = -x + 9$

$4x - 1 = -x + 9$

$+x = +x$

$5x - 1 = 9$

$+1 = +1$

$5x = 10$

$/5 = /5$

$x = 2$

7)  $x - 4 = -5x - 28$

$x - 4 = -5x - 28$

$+5x = +5x$

$6x - 4 = -28$

$+4 = +4$

$6x = -24$

$/6 = /6$

$x = -4$

8)  $-5x = -2x + 6$

$-5x = -2x + 6$

$+2x = +2x$

$-3x = 6$

$/-3 = /-3$

$x = -2$

9)  $-5x = 2x - 28$

$-5x = 2x - 28$

$-2x = -2x$

$-7x = -28$

$/-7 = /-7$

$x = 4$