Löse die Gleichungen nach x auf.

1. $2x + 4 = 10$

$2x + 4 = 10 \quad |-4$
$2x = 6 \quad |:2$
$x = 3$
$L = \{3\}$

$2x + 4 = 10 \quad |-4$
$2x = 6 \quad |:2$
$x = 3$
$L = \{3\}$

2. $5x - 1 = 4$

$5x - 1 = 4 \quad |+1$
$5x = 5 \quad |:5$
$x = 1$
$L = \{1\}$

3. $5x + 5 = -5$

$5x + 5 = -5 \quad |-5$
$5x = -10 \quad |:5$
$x = -2$
$L = \{-2\}$

4. $-2x - 6 = 4$

$-2x - 6 = 4 \quad |+6$
$-2x = 10 \quad |:(-2)$
$x = -5$
$L = \{-5\}-2x = 10 \quad |:(-2)$
$x = -5$
$L = \{-5\}$

5. $5x + 5 = 5x + 5$

$5x + 5 = 5x + 5|-5$
$5x = 5x \quad |:5$
$x = x$
$L = R$

6. $2(x + 8) = 2x + 3$

$2(x + 8) = 2x + 3|T$
$2x + 16 = 2x + 3|-2x$
$16 = 3$
$L = \{ \}$

7. $-5x + 3 = -2 - 6x$

$-5x + 3 = -2 - 6x|+6x$
$x + 3 = -2 \quad |-3$
$x = -5$
$L = \{-5\}$

8. $-2x + 3 = -1 - 3x$

$-2x + 3 = -1 - 3x|+3x$
$x + 3 = -1 \quad |-3$
$x = -4$
$L = \{-4\}$