**Ungleichungen I**

**Schreibe die Lösungsmenge L = {x │ x ....}.**

1. 4 - 3x < 1 │-4 2. 6x - 7 > 29 │+7

 - 3x < -3 │:(-3) 6x > 36 │:6

 x > 1 x > 6

 **L = {x │ x > 1} L = {x │ x > 6}**

3. 8x - 6 < -22,8 │+6 4. -4,21 - 5,5x < -26,21 │-4,21

 8x < -16,6 │:8 -5,5x < -22 │:(-5,5)

 x < 2,075 x > 4

 **L = {x │ x > -2,075} L = { x │ x > 4**

5. 8 - 2x > 2 + 4x │-4x 6. 3 + 7x > - 4x – 96 │+4x

 8 – 6x > 2 │-8 3 + 11x > -96 │-3

 -6x > -6 │:(-6) 11x > -99 │:11

 x < 1 x > -9

 **L = { x │ x < 1} L = {x │ x > -9}**

7. 9x - 1 > 6x – 13 │-6x 8. 5x - 1 < - x – 49 │+x

 3x – 1 > -13 │+1 6x – 1 < -49 │+1

 3x > -12 │:3 6x < -48 │:6

 x > -4 x < -8

 **L = {x │ x > -4} L = {x │ x < -8}**

9. 5x - 0,3 < 12,48 + 3x │-3x

 2x – 0,3 < 12,48 │+0,3

 2x < 12,78 │:2

 x < 6,39

 **L = {x │ x < 6,39}**

10. 8,46x - 7,62 > 31,14 + 2x │-2x

 6,46x – 7,62 > 31,14 │ +7,62

 6,46x > 38,76 │:6,46

 x > 6

 **L = {x │ x > 6}**