

Gleichungen

Lösungen

Übungsblatt 1

$$1. x + 7 = 13 \Rightarrow L = \{6\}$$

$$2. 5 + x = 13 \Rightarrow L = \{8\}$$

$$3. x - 7 = 5 \Rightarrow L = \{\}$$

$$4. 16 - x = 6 \Rightarrow L = \{10\}$$

$$5. x - 9 = 0 \Rightarrow L = \{9\}$$

$$6. 5 - x = 0 \Rightarrow L = \{5\}$$

$$7. 3 \cdot x = 18 \Rightarrow L = \{6\}$$

$$8. x \cdot 6 = 18 \Rightarrow L = \{3\}$$

$$9. x : 9 = 7 \Rightarrow L = \{\}$$

$$10. 56 : x = 7 \Rightarrow L = \{8\}$$

$$11. 5 \cdot x = 0 \Rightarrow L = \{0\}$$

$$12. x : 9 = 0 \Rightarrow L = \{0\}$$

$$13. x^2 = 4 \Rightarrow L = \{2\}$$

$$14. x^3 = 1 \Rightarrow L = \{1\}$$

$$15. 1^x = 1 \Rightarrow L = G$$

$$16. 1^x = 0 \Rightarrow L = \{\}$$

$$17. \sqrt{x} = 3 \Rightarrow L = \{9\}$$

$$18. \sqrt{x + 43} = 7 \Rightarrow L = \{6\}$$

$$19. \sqrt{29 - x} = 5 \Rightarrow L = \{4\}$$

$$20. (x - 3) \cdot (x - 8) = 0 \Rightarrow L = \{3, 8\}$$

$$21. x + 2 \leq 7 \Rightarrow L = \{0, 1, 2, 3, 4, 5\}$$

22. $2 + x > 6 \Rightarrow L = \{5, 6, 7, 8, 9, 10\}$
23. $x - 2 \geq 9 \Rightarrow L = \{\}$
24. $13 - x < 9 \Rightarrow L = \{5, 6, 7, 8, 9, 10\}$
25. $x - 8 \geq 0 \Rightarrow L = \{8, 9, 10\}$
26. $10 - x < 0 \Rightarrow L = \{\}$
27. $7 \cdot x \neq 35 \Rightarrow L = \{0, 1, 2, 3, 4, 6, 7, 8, 9, 10\}$
28. $x \cdot 4 > 20 \Rightarrow L = \{6, 7, 8, 9, 10\}$
29. $x : 6 < 2 \Rightarrow L = G$
30. $9 : x \leq 3 \Rightarrow L = \{3, 4, 5, 6, 7, 8, 9, 10\}$
31. $4 \cdot x > 0 \Rightarrow L = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
32. $x : 3 \geq 0 \Rightarrow L = G$
33. $x^2 < 100 \Rightarrow L = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$
34. $x^3 \neq 125 \Rightarrow L = \{0, 1, 2, 3, 4, 6, 7, 8, 9, 10\}$