**Äquivalente Gleichungen I**

**Löse folgende Gleichungen durch Äquivalenzumformung.**

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| 1. 7 + 4x = 15 │ -7 4x = 8 │:4 x = 2 **L = { 2 }** | 2. 1 - 4x = -35 │-1 -4x = -36 │:(-4) x = 9 **L = { 9 }** |
| 3. 4x - 1 = 27 │+1 4x = 28 │:4 x = 7 **L = { 7 }** | 4. 2x - 2 = -8 │+2 2x = -6 │:2 X = -3 **L = { -3 }** |
| 5. 2x - 3 = -13 │+3 2x = -10 │:2 x = -5 **L = { -5 }** | 6. 8 - 9x = 26 │-8 - 9x = 18 │:(-9) x = -2 **L = { -2 }** |

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| 7. 5x - 8 = 52 - 7x │+8 5x = 60 - 7x │+7x 12x = 60 │:12 x = 5 **L = { 5 }** | 8. 9 - 4x = 72 + 5x │-9 - 4x = 63 + 5x │-5x -9x = 63 │:(-9) x = -7 **L = { -7 }** |
| 9. 8 - 4x = 9x – 70 │-9x 8 – 13x = -70 │-8 – 13x = -78 │:(-13) x = **L = { 6 }** | 10. x - 7 = 6x – 2 │+7 x = 6x + 5 │-6x -5x = 5 **L = { -1 }** |
| 11. 5 + 9x = 3x – 7 │-3x 5 + 6x = -7 │-5 6x = -12 │:6 x = -2 **L = { -2 }** | 12. 6 - 4x = 38 + 4x │-6 -4x = 32 + 4x │-4x -8x = 32 │:(-8) x = -4 **L = { -4 }** |