**Äquivalente Gleichungen II**

**Löse folgende Gleichungen durch Äquivalenzumformung.**

**Scheibe die Lösungsmenge.**

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| 1. 2(7x + 2) - 5x = - 23 │ T  14x + 4 – 5x = - 23 │ T  9x + 4 = - 23 │-4  9x = - 27 │:9  x = -3 **L = { -3 }** |
| 2. 3(6x + 4) + 8x = - 222 │ T  18x + 12 + 8x = - 222 │ T  26x + 12 = - 222 │-12  26x = - 234 │:26  x = -9 **L = { -9 }** |
| 3. 2(5x + 9) - 3x = 46 │ T  10x + 18 – 3x = 46 │ T  7x + 18 = 46 │-18  7x = 28 │:7  x = 4 **L = { 4 }** |
| 4. 2(7x - 7) - 9x = - 29 │ T  14x – 14 -9x = -29 │ T  5x - 14 = -29 │+14  5x = - 15 **L = { -3 }** |
| 5. 4(6x - 2) + 9x = - 206 │ T  24x – 8 + 9x = - 206 │ T  33x – 8 = - 206 │+8  33x = - 198 │:33  x = -6 **L = { -6 }** |
| 6. 5(9x - 3) - x = 381 │ T  45x – 15 – x = 381 │ T  44x – 15 = 381 │+15  44x = 396 │:44  x = 9 **L = { 9 }** |