| Nr. | Quadratisch ergänzen | | | |
|---|---|---|---|---|
| 1 | x² | -1 1/ 10 x | = (x | )² |
| 2 | x² | -2 1/ 10 x | = (x | )² |
| 3 | x² | +4 2/ 5 x | = (x | )² |
| 4 | x² | + 9/ 10 x | = (x | )² |
| 5 | x² | +4 4/ 5 x | = (x | )² |
| 6 | x² | +2 1/ 5 x | = (x | )² |
| 7 | x² | + 3/ 5 x | = (x | )² |
| 8 | x² | +1 9/ 10 x | = (x | )² |
| 9 | x² | +4 1/ 5 x | = (x | )² |
| 10 | x² | -4 3/ 10 x | = (x | )² |
| 11 | x² | +4 1/ 5 x | = (x | )² |
| 12 | x² | + 7/ 10 x | = (x | )² |
| 13 | x² | + 4/ 5 x | = (x | )² |
| 14 | x² | - 1/ 2 x | = (x | )² |
| 15 | x² | - 1/ 10 x | = (x | )² |
| 16 | x² | -2 7/ 10 x | = (x | )² |
| 17 | x² | - 1/ 5 x | = (x | )² |
| 18 | x² | -2 7/ 10 x | = (x | )² |
| 19 | x² | +3 3/ 10 x | = (x | )² |
| 20 | x² | -4 1/ 5 x | = (x | )² |
| 21 | x² | - 3/ 5 x | = (x | )² |
| 22 | x² | +2 x | = (x | )² |
| 23 | x² | -1 x | = (x | )² |
| 24 | x² | -1 2/ 5 x | = (x | )² |
| 25 | x² | + 3/ 5 x | = (x | )² |
| 26 | x² | -3 1/ 5 x | = (x | )² |
| 27 | x² | -2 9/ 10 x | = (x | )² |
| 28 | x² | +4 4/ 5 x | = (x | )² |
| 29 | x² | - 4/ 5 x | = (x | )² |
| 30 | x² | -1 3/ 10 x | = (x | )² |
| 31 | x² | -2 x | = (x | )² |
| 32 | x² | +2 x | = (x | )² |
| 33 | x² | -2 1/ 10 x | = (x | )² |
| 34 | x² | +3 2/ 5 x | = (x | )² |
| 35 | x² | +4 x | = (x | )² |
| 36 | x² | -3 2/ 5 x | = (x | )² |
| 37 | x² | +3 7/ 10 x | = (x | )² |
| 38 | x² | +4 3/ 5 x | = (x | )² |
| 39 | x² | +1 3/ 5 x | = (x | )² |
| 40 | x² | -3 9/ 10 x | = (x | )² |
| 41 | x² | +3 x | = (x | )² |
| 42 | x² | -1 x | = (x | )² |
| 43 | x² | +2 3/ 5 x | = (x | )² |
| 44 | x² | +4 1/ 2 x | = (x | )² |
| 45 | x² | +2 2/ 5 x | = (x | )² |
| 46 | x² | +1 7/ 10 x | = (x | )² |
| 47 | x² | +2 1/ 2 x | = (x | )² |
| 48 | x² | -3 1/ 10 x | = (x | )² |
| 49 | x² | +3 1/ 5 x | = (x | )² |
| 50 | x² | +1 1/ 10 x | = (x | )² |
| 51 | x² | +4 9/ 10 x | = (x | )² |
| 52 | x² | -4 4/ 5 x | = (x | )² |
| 53 | x² | -4 1/ 5 x | = (x | )² |
| 54 | x² | +1 1/ 2 x | = (x | )² |
| 55 | x² | -4 4/ 5 x | = (x | )² |

Bruchdarstellung

3 2/ 5 bedeutet $3\ \frac{2}{5}$

Beispiellösung

$$x^2-2\ \frac{1}{10}x+\ldots = (x\ldots)$$

$$x^2-\ \frac{21}{10}x+\left(\frac{21}{10}:2\right)^2 = \left(x\ -\ \frac{1}{10}:2\right)$$

$$x^2-\ \frac{21}{10}x+\frac{441}{400} = \left(x\ -\ \frac{21}{20}\right)$$

$$x^2-\ 2\frac{1}{10}x+1\frac{41}{400} = \left(x\ -\ 1\frac{1}{20}\right)$$

| Nr. | Quadratisch ergänzen | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | $x^2$ | -1 | 1/ 10 | x | + 121/400 | = | (x | - 11/ 20 | )² |
| 2 | $x^2$ | -2 | 1/ 10 | x | +1 41/400 | = | (x | -1 1/ 20 | )² |
| 3 | $x^2$ | +4 | 2/ 5 | x | +4 21/ 25 | = | (x | +2 1/ 5 | )² |
| 4 | $x^2$ | + | 9/ 10 | x | + 81/400 | = | (x | + 9/ 20 | )² |
| 5 | $x^2$ | +4 | 4/ 5 | x | +5 19/ 25 | = | (x | +2 2/ 5 | )² |
| 6 | $x^2$ | +2 | 1/ 5 | x | +1 21/100 | = | (x | +1 1/ 10 | )² |
| 7 | $x^2$ | + | 3/ 5 | x | + 9/100 | = | (x | + 3/ 10 | )² |
| 8 | $x^2$ | +1 | 9/ 10 | x | + 361/400 | = | (x | + 19/ 20 | )² |
| 9 | $x^2$ | +4 | 1/ 5 | x | +4 41/100 | = | (x | +2 1/ 10 | )² |
| 10 | $x^2$ | -4 | 3/ 10 | x | +4 249/400 | = | (x | -2 3/ 20 | )² |
| 11 | $x^2$ | +4 | 1/ 5 | x | +4 41/100 | = | (x | +2 1/ 10 | )² |
| 12 | $x^2$ | + | 7/ 10 | x | + 49/400 | = | (x | + 7/ 20 | )² |
| 13 | $x^2$ | + | 4/ 5 | x | + 4/ 25 | = | (x | + 2/ 5 | )² |
| 14 | $x^2$ | - | 1/ 2 | x | + 1/ 16 | = | (x | - 1/ 4 | )² |
| 15 | $x^2$ | - | 1/ 10 | x | + 1/400 | = | (x | - 1/ 20 | )² |
| 16 | $x^2$ | -2 | 7/ 10 | x | +1 329/400 | = | (x | -1 7/ 20 | )² |
| 17 | $x^2$ | - | 1/ 5 | x | + 1/100 | = | (x | - 1/ 10 | )² |
| 18 | $x^2$ | -2 | 7/ 10 | x | +1 329/400 | = | (x | -1 7/ 20 | )² |
| 19 | $x^2$ | +3 | 3/ 10 | x | +2 289/400 | = | (x | +1 13/ 20 | )² |
| 20 | $x^2$ | -4 | 1/ 5 | x | +4 41/100 | = | (x | -2 1/ 10 | )² |
| 21 | $x^2$ | - | 3/ 5 | x | + 9/100 | = | (x | - 3/ 10 | )² |
| 22 | $x^2$ | +2 | | x | +1 | = | (x | +1 | )² |
| 23 | $x^2$ | -1 | | x | + 1/ 4 | = | (x | - 1/ 2 | )² |
| 24 | $x^2$ | -1 | 2/ 5 | x | + 49/100 | = | (x | - 7/ 10 | )² |
| 25 | $x^2$ | + | 3/ 5 | x | + 9/100 | = | (x | + 3/ 10 | )² |
| 26 | $x^2$ | -3 | 1/ 5 | x | +2 14/ 25 | = | (x | -1 3/ 5 | )² |
| 27 | $x^2$ | -2 | 9/ 10 | x | +2 41/400 | = | (x | -1 9/ 20 | )² |
| 28 | $x^2$ | +4 | 4/ 5 | x | +5 19/ 25 | = | (x | +2 2/ 5 | )² |
| 29 | $x^2$ | - | 4/ 5 | x | + 4/ 25 | = | (x | - 2/ 5 | )² |
| 30 | $x^2$ | -1 | 3/ 10 | x | + 169/400 | = | (x | - 13/ 20 | )² |
| 31 | $x^2$ | -2 | | x | +1 | = | (x | -1 | )² |
| 32 | $x^2$ | +2 | | x | +1 | = | (x | +1 | )² |
| 33 | $x^2$ | -2 | 1/ 10 | x | +1 41/400 | = | (x | -1 1/ 20 | )² |
| 34 | $x^2$ | +3 | 2/ 5 | x | +2 89/100 | = | (x | +1 7/ 10 | )² |
| 35 | $x^2$ | +4 | | x | +4 | = | (x | +2 | )² |
| 36 | $x^2$ | -3 | 2/ 5 | x | +2 89/100 | = | (x | -1 7/ 10 | )² |
| 37 | $x^2$ | +3 | 7/ 10 | x | +3 169/400 | = | (x | +1 17/ 20 | )² |
| 38 | $x^2$ | +4 | 3/ 5 | x | +5 29/100 | = | (x | +2 3/ 10 | )² |
| 39 | $x^2$ | +1 | 3/ 5 | x | + 16/ 25 | = | (x | + 4/ 5 | )² |
| 40 | $x^2$ | -3 | 9/ 10 | x | +3 321/400 | = | (x | -1 19/ 20 | )² |
| 41 | $x^2$ | +3 | | x | +2 1/ 4 | = | (x | +1 1/ 2 | )² |
| 42 | $x^2$ | -1 | | x | + 1/ 4 | = | (x | - 1/ 2 | )² |
| 43 | $x^2$ | +2 | 3/ 5 | x | +1 69/100 | = | (x | +1 3/ 10 | )² |
| 44 | $x^2$ | +4 | 1/ 2 | x | +5 1/ 16 | = | (x | +2 1/ 4 | )² |
| 45 | $x^2$ | +2 | 2/ 5 | x | +1 11/ 25 | = | (x | +1 1/ 5 | )² |
| 46 | $x^2$ | +1 | 7/ 10 | x | + 289/400 | = | (x | + 17/ 20 | )² |
| 47 | $x^2$ | +2 | 1/ 2 | x | +1 9/ 16 | = | (x | +1 1/ 4 | )² |
| 48 | $x^2$ | -3 | 1/ 10 | x | +2 161/400 | = | (x | -1 11/ 20 | )² |
| 49 | $x^2$ | +3 | 1/ 5 | x | +2 14/ 25 | = | (x | +1 3/ 5 | )² |
| 50 | $x^2$ | +1 | 1/ 10 | x | + 121/400 | = | (x | + 11/ 20 | )² |