

Aufgaben:

- 1) $10x^2 - 120 + 6x = 98x - 3x^2 - 24$
- 2) $(x - 5)(2x - 17) - (x - 7)(3x + 1) = 84$
- 3) $4x(12x - 13) + 11x(4 - 3x) = 16(15 - \frac{1}{2}x)$
- 4) $(3x - 4)^2 - (4x - 3)^2 + (5x - 2)(5x + 2) = 18(x + 2) + 3$
- 5) $(5 - x)(x + 1) = (10 - 2x)(5x - 9)$
- 6) $(x - 3)(x + 2) + x = 19$
- 7) $25x^2 - 3x + 8 - 3x^2 = 7x^2 + 25x + 3$
- 8) $5x(3x - 10) = 10x - 3x^2$
- 9) $x(3x - 7) - x + 4 = (x + 2)^2$
- 10) $(x - 2)^2 - 3(x - 2) - 10 = 0$
- 11) $7x(5x - 4) - 8x(4x - 5) = 3(9 + 4x)$
- 12) $(x + 1)(2x + 3) = 4x^2 - 22$
- 13) $10x^2 - 7x = 7x^2 + 4x + 20$
- 14) $(4x - 7)(3x + 1) = (1 - 5x)(3\frac{1}{2} - 2x)$
- 15) $3(5 - 2x) = x(12x - 2) + 10$
- 16) $(5 - x)(x + 1) = (10 - 2x)(5x - 9)$
- 17) $11x^2 - 7x = 8x^2 + 4x + 20$
- 18) $(3x - 4)^2 - (4x - 3)^2 + (5x - 2)(5x + 2) = 18(x + 2) + 3$
- 19) $3x(x - 10) = 2x(x - 10) - 5x$
- 20) $18x - 12(3x + 9) = 3(12 - 3x) - 5(2x + 7)$

Lösung:

- L = $\{-\frac{12}{13}; 8\}$
- L = $\{-8; 1\}$
- L = $\{-4; 4\}$
- L = $\{-1; 2\}$
- L = $\{2\frac{1}{9}; 5\}$
- L = $\{-5; 5\}$
- L = $\{\frac{1}{5}; 1\frac{2}{3}\}$
- L = $\{0; 3\frac{1}{3}\}$
- L = $\{0; 6\}$
- L = $\{0; 7\}$
- L = $\{-3; 3\}$
- L = $\{-2\frac{1}{2}; 5\}$
- L = $\{-1\frac{1}{3}; 5\}$
- L = $\{-3; 1\frac{3}{4}\}$
- L = $\{-\frac{5}{6}; \frac{1}{2}\}$
- L = $\{2\frac{1}{9}; 5\}$
- L = $\{-1\frac{1}{3}; 5\}$
- L = $\{-1; 2\}$
- L = $\{0; 5\}$
- L = $\{109\}$