

Multipliziere und fasse die Terme so weit wie möglich zusammen.

$$1. \quad (x + 3)(x + 7) = \\ x^2 + 7x + 3x + 21 = \underline{\underline{x^2 + 10x + 21}}$$

$$2. \quad (x + 2)(x - 5) = \\ x^2 - 5x + 2x - 10 = \underline{\underline{x^2 - 3x - 10}}$$

$$3. \quad (x - 4)(x + 6) = \\ x^2 + 6x - 4x - 24 = \underline{\underline{x^2 + 2x - 24}}$$

$$4. \quad (x - 1)(x - 9) = \\ x^2 - 9x - x + 9 = \underline{\underline{x^2 - 10x + 9}}$$

$$5. \quad x(x + 2) - (x + 3)(x + 7) = \\ x^2 + 2x - (x^2 + 3x + 7x + 21) = \\ x^2 + 2x - x^2 - 3x - 7x - 21 = \\ \underline{\underline{-8x - 21}}$$

$$6. \quad 4x(x - 3) - 2(x^2 + 3x) = \\ 4x^2 - 12x - 2x^2 - 6x = \\ \underline{\underline{2x^2 - 18x}}$$