

① Forme die folgenden Quadratwurzelterme um.

a) $5\sqrt{2} + 7\sqrt{2}$

i) $\sqrt{5} \cdot (2 + \sqrt{5})$

b) $6\sqrt{5} - 2\sqrt{5}$

j) $\sqrt{11} \cdot (5 + 6)$

c) $3\sqrt{x^6} - a\sqrt{x^6}$

k) $\sqrt{21} \cdot (3 + \sqrt{7})$

d) $7\sqrt{2} - 9\sqrt{3} + 4\sqrt{2} - 4\sqrt{3}$

$$1) \quad 5 \cdot \sqrt{5} \cdot (3 + \sqrt{20})$$

e) $\sqrt{5} + \sqrt{45}$

$$\text{m) } 2 \cdot \sqrt{16} \cdot (7 + \sqrt{4})$$

f) $4\sqrt{7} + 5\sqrt{11} - 4\sqrt{11} - \sqrt{7}$

$$\text{n) } \sqrt{\frac{1}{15}} \cdot (3 + \sqrt{135})$$

g) $\sqrt{3} + \sqrt{81}$

o) $\sqrt{x} \cdot (\sqrt{x} + \sqrt{x^3})$

h) $\sqrt{144a^3} + \sqrt{49a^3}$

A large grid of graph paper with 20 columns and 15 rows. The grid is composed of small squares, with a slightly larger margin at the top for writing.

② Mache die Nenner der folgenden Brüche rational.

a) $\frac{10}{\sqrt{7}}$

c) $\frac{5}{\sqrt{11}}$

e) $\frac{12}{3\sqrt{6}}$

g) $\frac{16}{\sqrt{2}}$

$$\text{b) } \frac{2}{\sqrt{31}}$$

d) $\frac{18}{\sqrt{13}}$

f) $\frac{9}{3\sqrt{3}}$

h) $\frac{\sqrt{5}}{\sqrt{35}}$

[illegible]