



Wurzeln – Nenner rational I

Mache den Nenner durch Erweitern rational.

1. $\frac{14}{\sqrt{10}} = \boxed{}$ $\frac{10}{\sqrt{14}} = \boxed{}$ $\frac{4}{\sqrt{10}} = \boxed{}$

2. $\frac{4}{\sqrt{6}} = \boxed{}$ $\frac{8}{\sqrt{14}} = \boxed{}$ $\frac{6}{\sqrt{14}} = \boxed{}$

3. $\frac{12}{\sqrt{21}} = \boxed{}$ $\frac{5}{\sqrt{10}} = \boxed{}$ $\frac{8}{\sqrt{10}} = \boxed{}$

4. $\frac{10}{\sqrt{14}} = \boxed{}$ $\frac{12}{\sqrt{15}} = \boxed{}$ $\frac{6}{\sqrt{10}} = \boxed{}$

5. $\frac{15}{\sqrt{21}} = \boxed{}$ $\frac{7}{\sqrt{10}} = \boxed{}$ $\frac{18}{\sqrt{6}} = \boxed{}$

6. $\frac{11}{\sqrt{14}} = \boxed{}$ $\frac{8}{\sqrt{14}} = \boxed{}$ $\frac{10}{\sqrt{6}} = \boxed{}$

7. $\frac{9}{\sqrt{15}} = \boxed{}$ $\frac{14}{\sqrt{6}} = \boxed{}$ $\frac{12}{\sqrt{14}} = \boxed{}$



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Lösungen

$$1. \quad \frac{14}{\sqrt{10}} = \frac{7}{5}\sqrt{10} \qquad \frac{10}{\sqrt{14}} = \frac{5}{7}\sqrt{14} \qquad \frac{4}{\sqrt{10}} = \frac{2}{5}\sqrt{10}$$

$$2. \quad \frac{4}{\sqrt{6}} = \frac{2}{3}\sqrt{6} \qquad \frac{8}{\sqrt{14}} = \frac{4}{7}\sqrt{14} \qquad \frac{6}{\sqrt{14}} = \frac{3}{7}\sqrt{14}$$

$$3. \quad \frac{12}{\sqrt{21}} = \frac{4}{7}\sqrt{21} \qquad \frac{5}{\sqrt{10}} = \frac{1}{2}\sqrt{10} \qquad \frac{8}{\sqrt{10}} = \frac{4}{5}\sqrt{10}$$

$$4. \quad \frac{10}{\sqrt{14}} = \frac{5}{7}\sqrt{14} \qquad \frac{12}{\sqrt{15}} = \frac{4}{5}\sqrt{15} \qquad \frac{6}{\sqrt{10}} = \frac{3}{5}\sqrt{10}$$

$$5. \quad \frac{15}{\sqrt{21}} = \frac{5}{7}\sqrt{21} \qquad \frac{7}{\sqrt{10}} = \frac{7}{10}\sqrt{10} \qquad \frac{18}{\sqrt{6}} = 3\sqrt{6}$$

$$6. \quad \frac{11}{\sqrt{14}} = \frac{11}{14}\sqrt{14} \qquad \frac{9}{\sqrt{14}} = \frac{9}{14}\sqrt{14} \qquad \frac{10}{\sqrt{6}} = \frac{5}{3}\sqrt{6}$$

$$7. \quad \frac{9}{\sqrt{15}} = \frac{3}{5}\sqrt{15} \qquad \frac{14}{\sqrt{6}} = \frac{7}{3}\sqrt{6} \qquad \frac{12}{\sqrt{14}} = \frac{6}{7}\sqrt{14}$$