

分母の有理化

年 組 名前

/24

■ 次の分数の分母を有理化しなさい。

① $\frac{3}{4\sqrt{14}}$

② $\frac{2}{\sqrt{10}}$

③ $\frac{\sqrt{5}}{5\sqrt{14}}$

④ $\frac{1}{2\sqrt{15}}$

⑤ $\frac{3}{\sqrt{42}}$

⑥ $\frac{1}{\sqrt{20}}$

⑦ $\frac{\sqrt{2}}{2\sqrt{15}}$

⑧ $\frac{3\sqrt{2}}{5\sqrt{21}}$

⑨ $\frac{\sqrt{5}}{2\sqrt{7}}$

⑩ $\frac{1}{\sqrt{6}}$

⑪ $\frac{1}{2\sqrt{6}}$

⑫ $\frac{1}{3\sqrt{7}}$

⑬ $\frac{2\sqrt{3}}{5\sqrt{2}}$

⑭ $\frac{\sqrt{2}}{3\sqrt{3}}$

⑮ $\frac{1}{\sqrt{18}}$

⑯ $\frac{2\sqrt{5}}{3\sqrt{6}}$

⑰ $\frac{1}{\sqrt{14}}$

⑱ $\frac{\sqrt{2}}{\sqrt{7}}$

⑲ $\frac{2}{\sqrt{21}}$

⑳ $\frac{\sqrt{2}}{\sqrt{5}}$

㉑ $\frac{\sqrt{3}}{3\sqrt{7}}$

㉒ $\frac{1}{4\sqrt{21}}$

㉓ $\frac{2}{\sqrt{8}}$

㉔ $\frac{1}{3\sqrt{10}}$

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■ 次の分数の分母を有理化しなさい。

$$\textcircled{1} \frac{3}{4\sqrt{14}}$$

$$\frac{3\sqrt{14}}{56}$$

$$\textcircled{2} \frac{2}{\sqrt{10}}$$

$$\frac{\sqrt{10}}{5}$$

$$\textcircled{3} \frac{\sqrt{5}}{5\sqrt{14}}$$

$$\frac{\sqrt{70}}{70}$$

$$\textcircled{4} \frac{1}{2\sqrt{15}}$$

$$\frac{\sqrt{15}}{30}$$

$$\textcircled{5} \frac{3}{\sqrt{42}}$$

$$\frac{\sqrt{42}}{14}$$

$$\textcircled{6} \frac{1}{\sqrt{20}}$$

$$\frac{\sqrt{5}}{10}$$

$$\textcircled{7} \frac{\sqrt{2}}{2\sqrt{15}}$$

$$\frac{\sqrt{30}}{30}$$

$$\textcircled{8} \frac{3\sqrt{2}}{5\sqrt{21}}$$

$$\frac{\sqrt{42}}{35}$$

$$\textcircled{9} \frac{\sqrt{5}}{2\sqrt{7}}$$

$$\frac{\sqrt{35}}{14}$$

$$\textcircled{10} \frac{1}{\sqrt{6}}$$

$$\frac{\sqrt{6}}{6}$$

$$\textcircled{11} \frac{1}{2\sqrt{6}}$$

$$\frac{\sqrt{6}}{12}$$

$$\textcircled{12} \frac{1}{3\sqrt{7}}$$

$$\frac{\sqrt{7}}{21}$$

$$\textcircled{13} \frac{2\sqrt{3}}{5\sqrt{2}}$$

$$\frac{\sqrt{6}}{5}$$

$$\textcircled{14} \frac{\sqrt{2}}{3\sqrt{3}}$$

$$\frac{\sqrt{6}}{9}$$

$$\textcircled{15} \frac{1}{\sqrt{18}}$$

$$\frac{\sqrt{2}}{6}$$

$$\textcircled{16} \frac{2\sqrt{5}}{3\sqrt{6}}$$

$$\frac{\sqrt{30}}{9}$$

$$\textcircled{17} \frac{1}{\sqrt{14}}$$

$$\frac{\sqrt{14}}{14}$$

$$\textcircled{18} \frac{\sqrt{2}}{\sqrt{7}}$$

$$\frac{\sqrt{14}}{7}$$

$$\textcircled{19} \frac{2}{\sqrt{21}}$$

$$\frac{2\sqrt{21}}{21}$$

$$\textcircled{20} \frac{\sqrt{2}}{\sqrt{5}}$$

$$\frac{\sqrt{10}}{5}$$

$$\textcircled{21} \frac{\sqrt{3}}{3\sqrt{7}}$$

$$\frac{\sqrt{21}}{21}$$

$$\textcircled{22} \frac{1}{4\sqrt{21}}$$

$$\frac{\sqrt{21}}{84}$$

$$\textcircled{23} \frac{2}{\sqrt{8}}$$

$$\frac{\sqrt{2}}{2}$$

$$\textcircled{24} \frac{1}{3\sqrt{10}}$$

$$\frac{\sqrt{10}}{30}$$