Enunciados

Racionaliza los denominadores de las siguientes expresiones y simplíficalas lo máximo que sea posible.

① $\dfrac{30}{\sqrt{5}}$

② $\dfrac{3}{\sqrt{21}}$

③ $\dfrac{15}{\sqrt[5]{27}}$

④ $\dfrac{2}{\sqrt[5]{22^3}}$

⑤ $\dfrac{4}{\sqrt{5}-3}$

⑥ $\dfrac{2}{\sqrt{19}+\sqrt{17}}$

⑦ $\dfrac{42}{\sqrt{7}}$

⑧ $\dfrac{5}{\sqrt{15}}$

⑨ $\dfrac{14}{\sqrt[3]{2}}$

⑩ $\dfrac{3}{\sqrt[5]{15^2}}$

⑪ $\dfrac{1}{2-\sqrt{5}}$

⑫ $\dfrac{5}{\sqrt{13}-\sqrt{8}}$

⑬ $\dfrac{70}{\sqrt{5}\sqrt{7}}$

⑭ $\dfrac{4}{(1+\sqrt{2})(2-\sqrt{2})}$

⑮ $\dfrac{\sqrt{2}}{\sqrt{3}}+\dfrac{\sqrt{3}}{\sqrt{2}}$

⑯ $\dfrac{1}{\sqrt{5}-2}+\dfrac{1}{\sqrt{5}+2}$

⑰ $\dfrac{6}{\sqrt{3}}+\dfrac{3}{2+\sqrt{3}}$

Soluciones

① $6\sqrt{5}$

② $\dfrac{\sqrt{21}}{7}$

③ $5\sqrt[5]{9}$

④ $\dfrac{\sqrt[5]{22^2}}{11}$

⑤ $-\sqrt{5}-3$

⑥ $\sqrt{19}-\sqrt{17}$

⑦ $6\sqrt{7}$

⑧ $\dfrac{\sqrt{15}}{3}$

⑨ $7\sqrt[3]{4}$

⑩ $\dfrac{\sqrt[5]{15^3}}{5}$

⑪ $-2-\sqrt{5}$

⑫ $\sqrt{13}+\sqrt{8}$

⑬ $2\sqrt{35}$

⑭ $2\sqrt{2}$

⑮ $\dfrac{5\sqrt{6}}{6}$

⑯ $2\sqrt{5}$

⑰ $6-\sqrt{3}$