

Rationalize the denominator of each expression.

1. $\frac{7}{\sqrt{2}}$

2. $\frac{\sqrt[3]{9}}{\sqrt[3]{16y}}$

3. $\sqrt[3]{\frac{2}{25}}$

4. $\frac{\sqrt[5]{x^2}}{\sqrt[5]{32y^{12}}}$

5. $\sqrt{\frac{5m}{11n}}$

6. $\sqrt[4]{\frac{81}{8}}$

7. $\frac{3}{2\sqrt{5}+1}$

8. $\frac{\sqrt{5}+3}{\sqrt{3}-\sqrt{2}}$