

A.APR.D.7: Rationalizing Denominators 3

1 Simplify: $3\sqrt{\frac{2}{5}} - 2\sqrt{\frac{1}{10}}$

2 Simplify: $\sqrt{\frac{4}{5}} + \frac{1}{2}\sqrt{20} - \frac{1}{5}\sqrt{45}$

3 Simplify: $2\sqrt{12} - 3\sqrt{\frac{1}{27}} - \sqrt{300} + 3\sqrt{27}$

4 Simplify: $\frac{3\sqrt{15}}{\sqrt{27}} \times \frac{5\sqrt{82}}{6\sqrt{105}} \div \frac{5\sqrt{6}}{2\sqrt{63}}$

5 Simplify: $\frac{\sqrt{12}}{\sqrt[3]{16}}$

6 Simplify: $\sqrt{\frac{1}{8}} \times \sqrt[3]{\frac{1}{2}}$

7 Simplify: $\frac{\sqrt{20} + \sqrt[4]{400}}{\sqrt{22\frac{1}{2}}}$

8 Simplify: $\frac{3\sqrt{50} + \sqrt[4]{4} - 2\sqrt{\frac{1}{2}}}{\sqrt{18}}$

9 Simplify: $\sqrt{12} - \sqrt[4]{729} + \sqrt{\frac{1}{3}} + \sqrt{3}$

10 Simplify: $\frac{2 - \sqrt{2}}{2 + \sqrt{2}}$

11 Simplify: $\frac{(\sqrt{5} - 2)(3 + \sqrt{5})}{5 - \sqrt{5}}$

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Answer Section

1 ANS:

$$\frac{2\sqrt{10}}{5}$$

REF: 089710al

2 ANS:

$$\frac{4\sqrt{5}}{5}$$

REF: 090404al

3 ANS:

$$\frac{8\sqrt{3}}{3}$$

REF: 010511al

4 ANS:

$$\frac{\sqrt{41}}{3}$$

REF: 060505al

5 ANS:

$$\frac{\sqrt[6]{432}}{2}$$

REF: 019713al

6 ANS:

$$\frac{\sqrt[6]{2}}{4}$$

REF: 069307al

7 ANS:

$$\frac{4\sqrt{2}}{3}$$

REF: 019309al

8 ANS:

$$5\sqrt{2}$$

REF: 099810al

9 ANS:

$$\frac{\sqrt{3}}{3}$$

REF: 030504al

10 ANS:

$$3 - 2\sqrt{2}$$

REF: 090404al

11 ANS:

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

REF: 010610al