

Rationalize the Denominator

Rationalize each denominator.

1) $\frac{3}{1 + \sqrt{7}}$

2) $\frac{4\sqrt[3]{4}}{\sqrt[3]{16}}$

3) $\frac{2\sqrt{2}}{4 - \sqrt{6}}$

5) $\frac{5}{7 - 4\sqrt{3}}$

7) $-\frac{6}{9 + \sqrt{13}}$

8) $\frac{\sqrt[3]{10}}{\sqrt[3]{2}}$

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Rationalize the Denominator

Rationalize each denominator.

$$1) \frac{3}{1 + \sqrt{7}}$$

$$2) \frac{4\sqrt[3]{4}}{\sqrt[3]{16}}$$

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

$$\sqrt[3]{16}$$

$$3) \frac{2\sqrt{2}}{4 - \sqrt{6}}$$

$$\frac{4\sqrt{2} + 2\sqrt{3}}{5}$$

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$$\frac{20\sqrt{5}}{11}$$

$$5) \frac{5}{7 - 4\sqrt{3}}$$

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$$\frac{3 - \sqrt{6}}{3}$$

$$7) \frac{6}{9 + \sqrt{13}}$$

$$\frac{27 - 3\sqrt{13}}{34}$$

$$8) \frac{\sqrt[3]{10}}{\sqrt[3]{2}}$$

$$\sqrt[3]{5}$$