

Rationalize the Denominator

Rationalize each denominator.

1) $\frac{2 + \sqrt{6}}{10 + \sqrt{6}}$

2) $\frac{6 - 4\sqrt{7}}{2\sqrt{7} - 5}$

3) $-\frac{19 - 3\sqrt{5}}{\sqrt{5} - 7}$

5) $\frac{11}{3\sqrt[3]{49}}$

7) $-\frac{6\sqrt[3]{3}}{\sqrt[3]{9}}$

8) $-\frac{\sqrt{7} + \sqrt{14}}{2\sqrt{7} + \sqrt{14}}$

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Rationalize the Denominator

Rationalize each denominator.

$$1) \frac{2 + \sqrt{6}}{10 + \sqrt{6}}$$

$$2) \frac{6 - 4\sqrt{7}}{2\sqrt{7} - 5}$$

$$\frac{7 + 4\sqrt{6}}{47}$$

$$\frac{26 + 8\sqrt{7}}{3}$$

$$3) \frac{19 - 3\sqrt{5}}{\sqrt{5} - 7}$$

$$\frac{59 - \sqrt{5}}{22}$$

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$$5) \frac{11}{3\sqrt[3]{49}}$$

$$\frac{11\sqrt[3]{7}}{21}$$

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$$7) \frac{6\sqrt[3]{3}}{\sqrt[3]{9}}$$

$$-2\sqrt[3]{9}$$

$$8) \frac{\sqrt{7} + \sqrt{14}}{2\sqrt{7} + \sqrt{14}}$$

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