

**Rationalize the Denominator**

Rationalize each denominator.

1) 
$$-\frac{\sqrt{5}-2}{\sqrt{5}-12}$$

2) 
$$\frac{4\sqrt[3]{6}}{\sqrt[3]{32}}$$

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

5) 
$$\frac{14+\sqrt{7}}{4\sqrt{7}+11}$$

7) 
$$\frac{9\sqrt{3}-8}{4-3\sqrt{3}}$$

8) 
$$\frac{\sqrt{2}-\sqrt{10}}{\sqrt{15}+\sqrt{12}}$$

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## Rationalize the Denominator

Rationalize each denominator.

$$1) \quad -\frac{\sqrt{5}-2}{\sqrt{5}-12}$$

$$2) \quad \frac{4\sqrt[3]{6}}{\sqrt[3]{32}}$$

$$\frac{19-10\sqrt{5}}{139}$$

$$\sqrt[3]{12}$$

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

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

$$\frac{+10\sqrt{2}}{49}$$

$$5) \quad \frac{14 + \sqrt{7}}{4\sqrt{7} + 11}$$

$$14 - 5\sqrt{7}$$

$$\frac{5\sqrt{19}}{6}$$

$$7) \quad \frac{9\sqrt{3}-8}{4-3\sqrt{3}}$$

$$\frac{49+12\sqrt{3}}{11}$$

$$8) \quad \frac{\sqrt{2}-\sqrt{10}}{\sqrt{15}+\sqrt{12}}$$

$$\frac{7\sqrt{6}-3\sqrt{30}}{3}$$