

Rationalize the Denominator

Rationalize each denominator.

1)
$$\frac{\sqrt{7} - 5}{2\sqrt{7} - 9}$$

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

3)
$$\frac{15 - 2\sqrt{3}}{2\sqrt{3} + 15}$$

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5)
$$\frac{17\sqrt{19}}{\sqrt{19} - \sqrt{2}}$$

7)
$$\frac{3}{\sqrt[3]{36}}$$

8)
$$\frac{7 - 3\sqrt{3}}{\sqrt{13}}$$

Rationalize the Denominator

Rationalize each denominator.

$$1) \frac{\sqrt{7} - 5}{2\sqrt{7} - 9}$$

$$\frac{31 + \sqrt{7}}{53}$$

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

$$-\frac{26\sqrt{5} + 31}{41}$$

$$3) \frac{15 - 2\sqrt{3}}{2\sqrt{3} + 15}$$

$$\frac{79 - 20\sqrt{3}}{71}$$

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$$-\frac{29\sqrt{6}}{47}$$

$$5) \frac{17\sqrt{19}}{\sqrt{19} - \sqrt{2}}$$

$$19 + \sqrt{38}$$

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$$\frac{\sqrt[3]{25}}{5}$$

$$7) \frac{3}{\sqrt[3]{36}}$$

$$\frac{\sqrt[3]{6}}{2}$$

$$8) \frac{7 - 3\sqrt{3}}{\sqrt{13}}$$

$$\frac{7\sqrt{13} - 3\sqrt{39}}{13}$$