

## Rationalize the Denominator

Rationalize each denominator.

1)  $-\frac{18}{2 + \sqrt{3}}$

2)  $\frac{2\sqrt{2}}{\sqrt{5} + \sqrt{14}}$

3)  $\frac{10 - \sqrt{15}}{3\sqrt{5}}$

5)  $\frac{7}{\sqrt{17} + 6}$

7)  $\frac{\sqrt{6}}{\sqrt{11} - 2\sqrt{3}}$

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

$\sqrt{14}$

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## Rationalize the Denominator

Rationalize each denominator.

$$1) \quad -\frac{18}{2 + \sqrt{3}}$$

$$\underline{-36 + 18\sqrt{3}}$$

$$2) \quad \frac{2\sqrt{2}}{\sqrt{5} + \sqrt{14}}$$

$$\underline{\frac{4\sqrt{7} - 2\sqrt{10}}{9}}$$

$$3) \quad \frac{10 - \sqrt{15}}{3\sqrt{5}}$$

$$\underline{\frac{2\sqrt{5} - \sqrt{15}}{3}}$$

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$$\underline{\frac{\sqrt{19}}{45}}$$

$$5) \quad \frac{7}{\sqrt{17} + 6}$$

$$\underline{\frac{42 - 7\sqrt{17}}{19}}$$

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$$\underline{\sqrt{14}}$$

$$7) \quad \frac{\sqrt{6}}{\sqrt{11} - 2\sqrt{3}}$$

$$\underline{-6\sqrt{2} - \sqrt{66}}$$

$$8) \quad -\frac{3}{5 - \sqrt{7}}$$

$$\underline{-\frac{5 + \sqrt{7}}{6}}$$