

**Rationalize the Denominator**

Rationalize each denominator.

1) 
$$-\frac{\sqrt{3}}{\sqrt{6} + \sqrt{7}}$$

2) 
$$\frac{16}{2\sqrt{3} + \sqrt{10}}$$

3) 
$$\frac{\sqrt{13}}{7 - \sqrt{2}}$$

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

7) 
$$\frac{2\sqrt{6} + \sqrt{3}}{3\sqrt{6}}$$

8) 
$$\frac{9}{\sqrt{15} + 6}$$

# PREVIEW

Gain complete access to the largest  
collection of worksheets in all subjects!

Members, please  
log in to  
download this  
worksheet.

Not a member?  
Please sign up to  
gain complete  
access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

## Rationalize the Denominator

Rationalize each denominator.

$$1) \quad -\frac{\sqrt{3}}{\sqrt{6} + \sqrt{7}}$$

$$2) \quad \frac{16}{2\sqrt{3} + \sqrt{10}}$$

$$\frac{3\sqrt{2} - \sqrt{21}}{\quad}$$

$$\frac{16\sqrt{3} - 8\sqrt{10}}{\quad}$$

$$3) \quad \frac{\sqrt{13}}{7 - \sqrt{2}}$$

$$\frac{7\sqrt{13} + \sqrt{26}}{47}$$

**PREVIEW**  
Gain complete access to the largest  
collection of worksheets in all subjects!

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

$$5) \quad \frac{2}{5 - 3\sqrt{2}}$$

$$\frac{10 + 6\sqrt{2}}{7}$$

Members, please  
log in to  
download this  
worksheet.

Not a member?  
Please sign up to  
gain complete  
access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

$$\frac{\sqrt{3} + \sqrt{7}}{\quad}$$

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

$$\frac{4 + \sqrt{2}}{6}$$

$$8) \quad \frac{9}{\sqrt{15} + 6}$$

$$\frac{18 - 3\sqrt{15}}{7}$$