

Name: _____

Algebra II

5.2 Rationalizing Denominators

Classwork

Simplify.

1. $\frac{2}{5-\sqrt{2}}$

7. $\frac{8\sqrt{3}}{3-\sqrt{2x}}$

2. $\frac{4}{3-\sqrt{5}}$

8. $\frac{9}{x-\sqrt{7}}$

3. $\frac{5}{\sqrt{2}+3}$

9. $\frac{2-\sqrt{3}}{5x-\sqrt{2x}}$

4. $\frac{3}{\sqrt{6}+1}$

10. $\frac{2-\sqrt{5}}{5-\sqrt{x}}$

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

11. $\frac{7-\sqrt{3}}{8-\sqrt{2}}$

6. $\frac{3+\sqrt{2}}{6-\sqrt{3}}$

12. $\frac{2-\sqrt{3}}{5x-\sqrt{2x}}$