Rationalizing the Denominator and Conjugate Pairs

Name _____

Date _____ Period _____

Simplified Form of a Rational Expressions
All perfect squares are factored out
No radicals allowed in the denominator of a fraction

$\frac{5}{\sqrt{2}}$ $\frac{7}{\sqrt{3}}$

To simplify: Rationalize the Denominator
Create a Perfect Square in the Denominator

$\frac{8}{\sqrt{2}}$ $\frac{4}{\sqrt{12}}$

$\frac{6}{\sqrt{x}}$ $\frac{2\sqrt{5}}{\sqrt{3ab}}$

$$\frac{8}{3+\sqrt{2}}$$

$$\frac{4}{\sqrt{5}+\sqrt{3}}$$

$$\frac{5}{2-\sqrt{a}}$$