Kuta Software - Infinite Geometry

Name_____

Simplifying Square Roots

Date_____ Period____

Simplify.

1) $\sqrt{96}$

2) $\sqrt{216}$

3) $\sqrt{98}$

4) $\sqrt{18}$

5) $\sqrt{72}$

6) $\sqrt{144}$

7) $\sqrt{45}$

8) $\sqrt{175}$

9) $\sqrt{343}$

10) $\sqrt{12}$

11) $10\sqrt{96}$

12) $9\sqrt{245}$

Name _____ Date _____ Period _____

Rationalizing Denominators Worksheet

Rationalize each denominator. When possible, simplify by reducing the resulting fraction.

Ex.. $\frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{4}} = \frac{\sqrt{2}}{2}$

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

3. $\frac{1}{\sqrt{7}}$

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

5. $\frac{15}{\sqrt{5}}$

6. $\frac{42}{\sqrt{7}}$

7. $\frac{1}{\sqrt{81}}$

8. $\frac{2}{\sqrt{11}}$

9. $\frac{4}{\sqrt{2}}$

10. $\frac{1}{\sqrt{3}}$

11. $\frac{1}{\sqrt{225}}$

12. $\frac{1}{3\sqrt{16}}$