## Rationalizing the Denominator Homework

**Directions:** Be sure to show all work, communicate your thought process, and justify your reasoning. Remember to check that your answers are complete, correct, and reasonable.

Simplify each expression by rationalizing the denominator.

1. 
$$\frac{\sqrt{2x^{23}y}}{\sqrt{54x}}$$

$$2. \ \frac{\sqrt{r} - 3\sqrt{s}}{9 + \sqrt{s}}$$

3. 
$$\frac{p\sqrt{9q^2p^{-2}}}{\sqrt{108}}$$

$$4. \ \frac{8\sqrt{m}}{1-\sqrt{m}}$$

5. 
$$\frac{\sqrt[3]{64}}{5 - \sqrt{28}}$$

6. 
$$\frac{-\sqrt{12}}{3+\sqrt{6}}$$

## Selected Solutions:

Unit 8 Homework

