

ALGEBRA 1
10.3 PRACTICE WS

Name _____

Date _____

Simplify each sum or difference.

1. $11\sqrt{7} - 4\sqrt{7}$

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

3. $8\sqrt{2} - \sqrt{98}$

4. $2\sqrt{54} - 3\sqrt{96}$

Simplify each product.

5. $\sqrt{3}(\sqrt{5} + \sqrt{3})$

6. $-\sqrt{8}(2 - 3\sqrt{6})$

7. $(\sqrt{3} + \sqrt{6})(\sqrt{3} - \sqrt{6})$

8. $(2\sqrt{2} + \sqrt{5})(2\sqrt{2} - \sqrt{5})$

Simplify each quotient.

9. $\frac{3}{\sqrt{5} - 1}$

10. $\frac{-1}{9 - \sqrt{3}}$

Simplify each expression.

11. $2\sqrt{3}(6 + 2\sqrt{6})$

12. $(\sqrt{2} + \sqrt{3})^2$