

## Unit 5 day?

Date \_\_\_\_\_ Period \_\_\_\_\_

**Simplify.**

1)  $2\sqrt{2} + 3\sqrt{2} - \sqrt{2}$

2)  $3\sqrt{6} + 2\sqrt{2} - \sqrt{6}$

3)  $-3\sqrt{24} - 2\sqrt{54}$

4)  $3\sqrt{24} - 2\sqrt{6}$

5)  $2\sqrt{12} - \sqrt{27}$

6)  $-3\sqrt{54} + 3\sqrt{24} - 3\sqrt{2}$

7)  $-\sqrt{15}(\sqrt{6} + \sqrt{2})$

8)  $\sqrt{6}(3\sqrt{10} + \sqrt{6})$

9)  $-2\sqrt{10}(3\sqrt{10} + 4)$

10)  $-3\sqrt{6}(-5\sqrt{2} + \sqrt{5})$

11)  $\sqrt{15}(\sqrt{10} + 4\sqrt{3})$

12)  $\sqrt{2}(-4\sqrt{2} + \sqrt{6})$

13)  $2\sqrt{6}(\sqrt{2} + \sqrt{10})$

14)  $\sqrt{6}(2\sqrt{10} - 2\sqrt{2})$

15)  $\frac{3}{3 - \sqrt{5}}$

16)  $\frac{3}{3 - 2\sqrt{2}}$

17)  $\frac{3}{-3 + 2\sqrt{3}}$

18)  $\frac{4}{-4 + \sqrt{5}}$

19)  $\frac{5}{2 - 5\sqrt{2}}$

20)  $\frac{4}{\sqrt{5} - \sqrt{3}}$