

## 6.6 HW

Date \_\_\_\_\_ Alg \_\_\_\_\_

**Simplify.**

1)  $5\sqrt{15} \cdot 2\sqrt{6}$

2)  $\frac{\sqrt{15}}{\sqrt{3}}$

3)  $-4\sqrt{15}(4 + 5\sqrt{6})$

4)  $\frac{5\sqrt{16}}{\sqrt{9}}$

5)  $-3\sqrt{5} + 3\sqrt{45}$

6)  $\sqrt{96}$

7)  $-\sqrt{20} \cdot \sqrt{5}$

8)  $\frac{4\sqrt{10}}{2\sqrt{8}}$

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

10)  $\frac{\sqrt{8}}{6\sqrt{36}}$

11)  $2\sqrt{6} - 3\sqrt{3} - \sqrt{27}$

12)  $8\sqrt{105}$

**Watch the video on rationalizing radicals. Then, try these.**

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

14)  $\frac{\sqrt{3}}{\sqrt{2}}$

15)  $\frac{4\sqrt{2}}{5\sqrt{5}}$

16)  $\frac{2\sqrt{8}}{4\sqrt{6}}$