

## Algebra 2: Homework 29

Express in simplest radical form:

1.  $8\sqrt{6} - \sqrt{6}$

2.  $2\sqrt{8} - \sqrt{32}$

3.  $\sqrt{125} + \sqrt{12} - \sqrt{45} + \sqrt{75}$

4.  $(2 + \sqrt{7})(3 + \sqrt{7})$

5.  $\frac{8\sqrt{24} + 12\sqrt{2}}{4\sqrt{2}}$

6.  $\frac{45\sqrt{40}}{60\sqrt{10}}$

7.  $\sqrt{\frac{7}{4}} \cdot \sqrt{7}$

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

9.  $-2\sqrt{63k^4}$

10.  $\frac{3}{2}\sqrt{20y}$

11.  $\frac{4}{5}\sqrt[3]{125y^5}$

12.  $(8 - \sqrt{3})^2$