

Name: _____

Multiplying Radical Expressions Problem Set

Hour: _____

Express each of the following in simplest radical form, combining terms where possible.

1. $6\sqrt{35}(\sqrt{10} + 6)$

4. $(\sqrt{5} + 6\sqrt{7})(3\sqrt{5} + 4\sqrt{7})$

2. $-7\sqrt{15}(5 + 3\sqrt{6})$

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

3. $\sqrt{5}(-4\sqrt{15} - 7\sqrt{14})$

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