

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

**WS 14C.2 – More Multiplying Radicals**

#1-10, Simplify each radical expression.

1.  $\sqrt{4f^3g} \cdot \sqrt{9f^2g}$

2.  $-2\sqrt{12ab} \cdot -4\sqrt{3a^5b}$

3.  $3\sqrt{6}(-7 + 6\sqrt{8})$

4.  $-6\sqrt{3}(4\sqrt{6} - 4\sqrt{3})$

5.  $(8 + \sqrt{12})(3 - \sqrt{12})$

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

7.  $(4\sqrt{5} - 6)(-4 + 3\sqrt{2})$

8.  $(5\sqrt{3} + 2\sqrt{5})(4\sqrt{3} - 3\sqrt{5})$

9.  $\sqrt[3]{25d^6} \cdot \sqrt[3]{25e^{12}}$

10.  $5\sqrt[3]{98g^5h^4} \cdot -2\sqrt[3]{21g^4h^{10}}$