

**Integrated Algebra 2  
Radicals Worksheet #2**

**Name:**

**1. Simplify the following expressions completely. Please show all of your work!**

a.  $4\sqrt{98y^4}$

b.  $\sqrt[3]{64x^6y^3}$

c.  $\sqrt[4]{81m^4n^5}$

d.  $\sqrt{32}$

e.  $5\sqrt{50}$

f.  $\sqrt[3]{16}$

**2. Use the product property and quotient property to simplify the following expressions completely.**

a.  $\sqrt{3x^2z^3} \cdot \sqrt{15x^2z}$

b.  $\sqrt{26} \cdot \sqrt{39} \cdot \sqrt{14}$

c.  $(7\sqrt{6})(-3\sqrt{10})$

d.  $(4\sqrt{18})(2\sqrt{14})$

e.  $\sqrt{\frac{8}{9}}$

f.  $\sqrt[3]{\frac{5}{27a^{10}}}$