## **Practice for Quiz 2 – Radicals**

- 1. Evaluate using a calculator (give to 4 decimal places).
- a.  $32^{\frac{5}{2}}$

b.  $\sqrt[4]{18}$ 

c.  $6\sqrt[3]{70}$ 

- 2. Express each power as an equivalent entire radical.
- a.  $3^{\frac{2}{4}}$

b.  $(9^4)^{\frac{3}{5}}$ 

 $c. \left(\frac{x^2}{y^5}\right)^{\frac{-3}{4}}$ 

- 3. Write each radical as a power.
- a.  $\sqrt{(4y)^7}$

b.  $\sqrt[3]{12x^4}$ 

c.  $5\sqrt[3]{z^{\frac{4}{3}}}$ 

- 4. Write each mixed radical as an entire radical.
- a.  $6\sqrt{2}$

b.  $\left(\frac{1}{2}\right)\sqrt{24}$ 

c.  $3\sqrt[3]{4}$ 

- 5. Write each entire radical as a mixed radical.
- a.  $\sqrt{18}$

b.  $\sqrt{200}$ 

c. <sup>3</sup>√128