## 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. $\left(9^{4}\right)^{\frac{3}{5}}$
c. $\left(\frac{x^{2}}{y^{5}}\right)^{\frac{-3}{4}}$
3. Write each radical as a power.
a. $\sqrt{(4 y)^{7}}$
b. $\sqrt[3]{12 x^{4}}$
c. $5 \sqrt[3]{\mathrm{Z}^{\frac{4}{3}}}$
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. $\sqrt[3]{128}$
