## Algebra II Worksheet \#2 Unit 10 Selected Solutions

Evaluate each of the following.

1. $36^{\frac{1}{2}}=\sqrt{36}=\mathbf{6}$
2. $125^{\frac{1}{3}}=\sqrt[3]{125}=\mathbf{5}$
3. $25^{\frac{3}{2}}=(\sqrt{25})^{3}=5^{3}=\mathbf{1 2 5}$
4. $\left(\frac{4}{9}\right)^{\frac{-1}{2}}=\left(\frac{9}{4}\right)^{\frac{1}{2}}=\sqrt{\frac{9}{4}}=\frac{3}{2}$

Express each of the following using standard radical form.
14. $12^{\frac{1}{2}}=\sqrt{12}=2 \sqrt{3}$
20. $\left(\frac{2}{5}\right)^{\frac{-1}{2}}=\left(\frac{5}{2}\right)^{\frac{1}{2}}=\sqrt{\frac{5}{2}}=\sqrt{\frac{10}{4}}=\frac{\sqrt{\mathbf{1 0}}}{2}$

