- 1. Rewrite the following with rational exponents.
 - a. $\sqrt[5]{3^2}$

- b. $\sqrt{6}^{3}$
- 2. Rewrite the following as a radical.
 - a. $7^{\frac{3}{2}}$

b. $\left(\frac{4}{25}\right)^{-\frac{1}{2}}$

- c. $\left(\frac{125}{8}\right)^{2/3}$
- 3. Evaluate the following, show all the steps and leave the answer as an exact value.
 - a. 36⁰

b. $(-8)^{\frac{2}{3}}$

 $c. \left(\frac{36}{25}\right)^{\frac{-1}{2}}$

$$e.\left(\frac{9}{16}\right)^{\frac{3}{2}}$$

$$f. \left(\frac{4}{25}\right)^{\frac{-3}{2}}$$