Algebra 1   Name_____

Rational Exponents WS

Write each expression in radical form.

1) $2^{\frac{3}{4}}$

2) $7^{\frac{4}{3}}$

3) $7^{\frac{2}{3}}$

Write each expression in exponential form.

4) $\left(\sqrt[3]{6}\right)^4$

5) $\sqrt[6]{10}$

6) $\left(\sqrt[3]{4}\right)^2$

Write each rational exponent as a radical. Then simplify.

7) $80^{\frac{1}{2}}$

8) $243^{\frac{3}{5}}$

9) $15^{\frac{3}{2}}$

10) $9^{\frac{4}{3}}$