OUTLINE

References: 8.3

1. Simplifying Expressions with Rational Exponents

- (a) First just 1/b exponent
- (b) Then a/b exponent

2. Conversions

- (a) Rational exponents to radical expression
- (b) Radical experession to rational exponent

3. Extra Problems

PROBLEM 1. Simplify the following:

$$(a) \left(-\frac{27}{8}\right)^{\frac{1}{3}}$$

$$(b) \left(\frac{16}{9}\right)^{-\frac{3}{2}}$$

$$(c) \left(\frac{a^{\frac{3}{2}}b^{-\frac{2}{3}}}{c^{-\frac{1}{3}}}\right)^{\frac{2}{5}}$$