

Supplements for Math 260S Lab Hour

Laws of Exponents including fractional powers:

1. Simplify:

$$(a^{-5}b^7c^{-2})(a^{-3}b^{-2}c^6)$$

2. Simplify:

$$\frac{10x^{-4}yz^7}{-8x^7y^{-3}z^{-3}}$$

3. Simplify:

$$\left(\frac{-9a^{-3}b^4c^{-5}}{21a^{-8}b^{-4}c^7}\right)^{-2}$$

4. Simplify:

$$\left(-\frac{1}{8}\right)^{-2/3}$$

5. Simplify:

$$\left(m^{\frac{2}{3}}n^{-\frac{1}{4}}\right)^{1/2}$$

6. Simplify:

$$\left(\frac{x^{-\frac{1}{3}}y^{\frac{2}{5}}}{x^{\frac{1}{4}}y^{-\frac{3}{4}}}\right)^{1/4}$$

7. Simplify:

$$\left(\frac{a^{-\frac{1}{5}}b^{-\frac{3}{2}}}{a^{-\frac{2}{3}}b^{-\frac{1}{6}}}\right)^0$$

8. Simplify:

$$\left(\frac{81x^6}{y^{-2}}\right)^{-3/4}$$

9. Simplify:

$$5x^0 - (-2)^0$$

10. Simplify:

$$(-3y^{-2})^0 + 4x^0$$