

Northern Michigan University (Marquette Co, MI)

CS111-04-26W: College Algebra (Andrew A. Poe)
Quiz I

Name: _____
Friday 23 January 2026 2:00 P.M. EST

Time: 15 minutes

1. Simplify the following expression:

$$\frac{|3x - 15|}{|5 - x|}$$

$3 \frac{|x-5|}{|5-x|}$ 3

2. Simplify the following expression:

$$\frac{x^{3/2} y^{-1/3} z^{2/4}}{x^{1/2} y^{2/3} z^{5/10}}$$

$\frac{x^{3/2-1/2} z^{1/2-1/2}}{y^{2/3+1/3}}$ $\frac{x^1 z^0}{y^1}$ $\frac{x}{y}$

3. Simplify the following expression:

$$\sqrt[3]{a^3 b^3 + 8a^3}$$

$\sqrt[3]{a^3 (b^3 + 8)}$ $\sqrt[3]{a^3} \sqrt[3]{b^3 + 8}$ $a \sqrt[3]{b^3 + 8}$

4. Compute $64^{2/3}$.

$(4^3)^{2/3}$ 4^2 16