

## MAT 1033 and IDS 2391 Formula Sheet

### Arithmetic Operations

$$ab + ac = a(b + c)$$

$$a\left(\frac{b}{c}\right) = \frac{ab}{c}$$

$$\left(\frac{a}{b}\right) \frac{c}{d} = \frac{ac}{bd}$$

$$\frac{a}{\left(\frac{b}{c}\right)} = \frac{ac}{b}$$

$$\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$$

$$\frac{a}{b} - \frac{c}{d} = \frac{ad - bc}{bd}$$

$$\frac{a-b}{c-d} = \frac{b-a}{d-c}$$

$$\frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$$

$$\frac{ab+ac}{a} = b+c, \quad a \neq 0$$

$$\left(\frac{a}{b}\right) \left(\frac{c}{d}\right) = \frac{ac}{bd}$$

### Exponent Properties

$$a^m a^n = a^{m+n}$$

$$\frac{a^m}{a^n} = a^{m-n} = \frac{1}{a^{n-m}}$$

$$(a^m)^n = a^{mn}$$

$$a^0 = 1, \quad a \neq 0$$

$$(ab)^n = a^n b^n$$

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$$

$$a^{-n} = \frac{1}{a^n}$$

$$\frac{1}{a^{-n}} = a^n$$

$$\left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^n = \frac{b^n}{a^n}$$

$$a^{\frac{1}{n}} = \left(a^{\frac{1}{n}}\right)^n = \left(a^n\right)^{\frac{1}{n}}$$



$$A = lw$$



$$V = lwh$$

### Linear Equations

$$\text{Slope: } m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\text{Point-Slope Formula: } (y - y_1) = m(x - x_1)$$

$$\text{Slope-Intercept Formula: } y = mx + b$$

$$\text{Standard Equation of a Line: } Ax + By = C$$

### Arithmetic Properties

$$\text{Additive Inverse: } a + (-a) = 0$$

$$\text{Multiplicative Inverse: } a \cdot \frac{1}{a} = 1$$

$$\text{Commutative Property: } \begin{aligned} a + b &= b + a \\ a \cdot b &= b \cdot a \end{aligned}$$

$$\text{Associative Property: } \begin{aligned} (a + b) + c &= a + (b + c) \\ (a \cdot b) \cdot c &= a \cdot (b \cdot c) \end{aligned}$$

$$\text{Identity Property: } \begin{aligned} a + 0 &= a \\ a \cdot 1 &= a \end{aligned}$$

$$\text{Distributive Property: } a \cdot (b + c) = a \cdot b + a \cdot c$$

$$\text{Multiplicative Property of Zero: } a \cdot 0 = 0$$

$$\text{Additive Property of Equality: } \text{If } a = b, \text{ then } a + c = b + c$$

$$\text{Multiplicative Property of Equality: } \text{If } a = b, \text{ then } a \cdot c = b \cdot c$$

# Math 108 Intermediate Algebra Course Syllabus

**Jay Lehmann**



**Math 108 Intermediate Algebra Course Syllabus:**

## **Math 108 Intermediate Algebra Course Syllabus** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Math 108 Intermediate Algebra Course Syllabus**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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