

## MAT 1033 and IDS 2391 Formula Sheet

### Arithmetic Operations

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

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

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

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

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

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

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

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

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

### Exponent Properties

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

$$(a^m)^n = a^{mn} \qquad a^0 = 1, \quad a \neq 0$$

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

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

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



$$A = lw$$



$$V = lwh$$

### 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

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

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

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

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

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

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

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

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

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

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