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1 algebra

1.1 wallace

1.1.1 distributive property

$$\text{distributive property : } a(b + c) = ac + bc$$

1.1.2 slope

$$\text{slope} = m = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$$

1.1.3 properties of exponents

$$\begin{array}{lll} a^m a^n = a^{m+n} & (ab)^m = a^m b^m & \frac{a^m}{a^n} = a^{m-n} \\ (a/b)^m = \frac{a^m}{b^m} & a^{-m} = \frac{1}{a^m} & \frac{1}{a^{-m}} = a^m \\ (a^m)^n = a^{mn} & a^0 = 1 & \left(\frac{a}{b}\right)^{-m} = \frac{b^m}{a^m} \end{array}$$

1.1.4 scientific notation

$$\text{scientific notation : } a \times 10^b \text{ where } 1 \leq a < 10$$

2 geometry