Contents

1 algebra

1.1 wallace

1.1.1 distributive property

distributive property : $a(b+c) = ac + bc$

1.1.2 slope

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

1.1.3 properties of exponents

$a^m a^n = a^{m+n}$	$(\text{ab})^m = a^m b^m$	$\frac{a^m}{/} a^n = a^{m-n}$
$(a/b)^m = \frac{a^m}{b^m}$	$a^{-m} = \frac{1}{a^m}$	$\frac{1}{a^{-m}} = a^m$
$(a^m)^n = a^m n$	$a^0 = 1$	$\left(\frac{a}{b}\right)^{-m} = \frac{b^m}{a^m}$

1.1.4 scientific notation

sicentific notation : $a \times 10^b$ where $1 \leqslant a < 10$

2 geometry