Contents

1 algebra

- 1.1 wallace
- 1.1.1 distributive property

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

1.1.2 slope

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

1.1.3 properties of exponents

$$a^{m+2}a^n + 2 = a^{m+n}$$
 $(ab)^m = a^m b^m$ $\frac{a^m}{/}a^n = a^{m-n}$ $(a/b)^m = \frac{a^m}{b^m}$ $a^{-m} = \frac{1}{a^m}$ $\frac{1}{a^{-m}} = a^m$ $(a^m)^n = a^m n$ $a^0 = 1$ $(\frac{a}{b})^{-m} = \frac{b^m}{a^m}$

1.1.4 scientific notation

$$\frac{44}{\frac{2}{22^2}}$$

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

2 geometry