Contents

1	alge	bra		1
	1.1	wallace	9]
		1.1.1	distributive property	1
		1.1.2	slope	1
		1.1.3	properties of exponents]
		1.1.4	scientific notation]
9	COOT	motry		1

1 algebra

1.1 wallace

1.1.1 distributive property

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

1.1.2 slope

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

1.1.3 properties of exponents

$$a^{m}a^{n} = a^{m+n} \quad (ab)^{m} = a^{m}b^{m} \quad \frac{a^{m}}{a^{n}} = a^{m-n}$$

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

$$(a^{m})^{n} = a^{mn} \qquad a^{0} = 1 \qquad \left(\frac{a}{b}\right)^{-m} = \frac{b^{m}}{a^{m}}$$

1.1.4 scientific notation

$$a \times 10^b$$
 where $1 \leqslant a < 10$

2 geometry