

MARKAH :

MATEMATIK

TINGKATAN 2

BAB 3 : RUMUS ALGEBRA

- 13 (a)** Rajah 4 menunjukkan kad-kad yang berlabel dengan ungkapan algebra.
Diagram 4 shows cards labelled with algebraic expressions.

$2tu + 4tu$	
$q^2 = 3x + 2y$	$2mx + c$
$pqr + rs$	$y^3 + 3 = x^2 + 2$

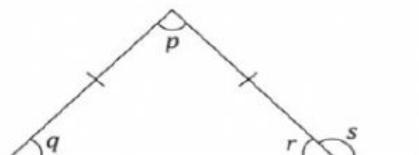
Rajah 4 / Diagram 4

Isikan petak kosong pada ruang jawapan dengan rumus algebra dari Rajah 4.
Fill in the boxes in the answer space with algebraic formulae from Diagram 4.

[2 markah/ marks]

Jawapan/ Answer:

- (b)** Rajah 5 menunjukkan sebuah segi tiga sama kaki.
Diagram 5 shows an isosceles triangle.



Rajah 5 / Diagram 5

Pilih **dua** rumus algebra yang betul dan tandakan (✓) pada ruang jawapan.
*Choose **two** correct algebraic formulae and mark (✓) in the answer space.*

[2 markah/ marks]

Jawapan/ Answer:

$p + q = s$	
$180^\circ - p = q$	
$p + q + r = 180^\circ$	
$s - r = p$	

- 14 (a)** Rajah 6 menunjukkan satu rumus algebra.
Diagram 6 shows an algebraic formula.

Isi padu sfera/ Volume of sphere:

$$V = \frac{4}{3} \pi j^3$$

Rajah 6 / Diagram 6

Nyatakan perkara rumus.
State the subject of formula.

[1 markah/ mark]

Jawapan/ Answer:

- (b)** Padankan rumus algebra berikut kepada rumus algebra yang sepadan.
Match the following algebraic formulae to its corresponding algebraic formula.

[3 markah/ marks]

Jawapan/ Answer:

$pq - 3 = \frac{p}{4} - 3q$	• $p = \frac{12 - 12q}{4q - 1}$
$\frac{2}{p - q} = \frac{p + q}{2}$	• $p = -\frac{5q}{4q - 2}$
$\frac{2p}{q} - 5 = 4p$	• $p = \frac{3q}{2}$
	• $p = \sqrt{4 + q^2}$

- 15 (a)** Rajah 7 menunjukkan satu rumus algebra.
Diagram 7 shows an algebraic formula.

$$M_1 V_1 = M_2 V_2$$

Rajah 7 / Diagram 7

Tandakan (✓) bagi nilai pemboleh ubah yang menepati rumus algebra itu.
Mark (✓) for the values of variables which satisfy the algebraic formula.

[2 markah/ marks]

Jawapan/ Answer:

M_1	M_2	V_1	V_2	(✓)
2	6	3	2	
3	5	10	6	
15	2	6	45	