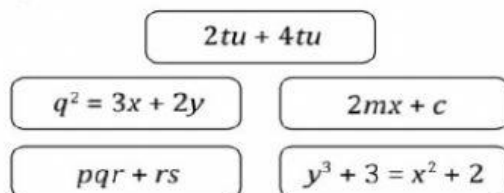


### BAB 3 : RUMUS ALGEBRA

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



Rajah 4/ Diagram 4

Isikan petak kosong pada ruang jawapan dengan rumus algebra dari Rajah 4.

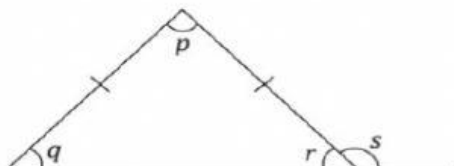
Fill in the boxes in the answer space with algebraic formulae from Diagram 4.

[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:

$pq - 3 = \frac{p}{4} - 3q$

$\frac{2}{p - q} = \frac{p + q}{2}$

$\frac{2p}{q} - 5 = 4p$

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

- 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    |     |