

Bahagian A

1. Diberi $x = \frac{6+7y}{y}$, ungkapkan y sebagai perkara rumus. **SK3.1 TP2**

Given $x = \frac{6+7y}{y}$, express y as the subject of the formula.

A $y = \frac{6}{x} - 7$ C $y = \frac{6}{x+7}$

B $y = \frac{6}{x-7}$ D $y = \frac{6}{x} + 7$

2. Diberi $v^2 = u^2 + 2as$, ungkapkan s dalam sebutan u , a dan v . **SK3.1 TP2**

Given $v^2 = u^2 + 2as$, express s in terms of u , a and v .

A $s = \frac{v^2 - u^2}{2a}$ C $s = \frac{v^2 - u^2}{a}$

B $s = \frac{v^2 + u^2}{2a}$ D $s = \frac{v^2 + u^2}{a}$

3. Diberi $8yz^3 = 6w - 10x^2$, ungkapkan x dalam sebutan w , y dan z . **SK3.1 TP2**

Given $8yz^3 = 6w - 10x^2$, express x in terms of w , y and z .

A $x = \frac{\sqrt{3w+4yz^3}}{5}$

B $x = \frac{\sqrt{3w-4yz^3}}{5}$

C $x = \sqrt{\frac{3w-4yz^3}{5}}$

D $x = \sqrt{\frac{3w+4yz^3}{5}}$

4. Diberi $F = \frac{GM}{2\sqrt{r}} + 5$, ungkapkan r sebagai perkara rumus. **SK3.1 TP2**

Given $F = \frac{GM}{2\sqrt{r}} + 5$, express r as the subject of the formula.

A $r = \frac{GM^2}{4(F+5)^2}$

B $r = \frac{G^2M^2}{4(F+5)^2}$

C $r = \frac{GM^2}{4(F-5)^2}$

D $r = \frac{G^2M^2}{4(F-5)^2}$

5. Diberi $y = \frac{2x-2}{2x+2}$ dan $t = \frac{1}{2x}$, ungkapkan y dalam sebutan t . **SK3.1 TP3**

Given $y = \frac{2x-2}{2x+2}$ and $t = \frac{1}{2x}$, express y in terms of t .

A $y = \frac{t-2}{t+2}$ C $y = \frac{1+2t}{1-2t}$

B $y = \frac{1-2t}{1+2t}$ D $y = \frac{t+2}{t-2}$

6. Diberi $-6p = \frac{12m-2}{n+m}$, cari nilai n apabila $m = 4$ dan $p = -2$. **SK3.1 TP3**

Given $-6p = \frac{12m-2}{n+m}$, find the value of n when $m = 4$ and $p = -2$.

A $\frac{1}{4}$ C $-\frac{1}{6}$

B $\frac{1}{6}$ D $-\frac{1}{4}$

7. Diberi $16a^2 = 4\left(\frac{3b-4c}{5}\right)^2$, hitung nilai c apabila $a = -5$ dan $b = 2$ jika $c < 0$.

Given $16a^2 = 4\left(\frac{3b-4c}{5}\right)^2$, calculate the value of c when $a = -5$ and $b = 2$ if $c < 0$.

- A 14 C -11
B 11 D -14

8. Pada tahun ini, umur Huey Ting ialah h tahun dan umur bapanya adalah empat kali umurnya. Hasil tambah umur mereka tiga tahun yang lepas ialah k tahun. Ungkapkan h dalam sebutan k .

In this year, Huey Ting is h years old and her father is four times of her age. The sum of their ages three years ago is k years. Express h in terms of k .

- A $h = \frac{k+3}{5}$
B $h = \frac{6-k}{5}$
C $h = \frac{k-6}{5}$
D $h = \frac{k+6}{5}$

9. Bina satu rumus bagi y berdasarkan maklumat dalam jadual di bawah. Construct a formula for y based on the information in the table below.

x	1	2	3	4	5
y	3	7	11	15	19

- A $y = 4x - 1$ C $y = 2x - 1$
B $y = 4x + 1$ D $y = 2x + 1$

10. Yuran parkir, RMy, di suatu tempat meletak kereta adalah hasil tambah caj asas RM5.00 dan caj RM0.80 untuk setiap jam. Antara berikut, rumus yang manakah digunakan untuk menentukan yuran parkir untuk n jam?

The parking fee, RMy, of a parking lot is the sum of a basic charge of RM5.00 and a charge of RM0.80 for every one hour. Which of the following is the formula used to determine the parking fee for n hours?

- A $y = 5.00 + 0.80n$
B $y = 5.00 - 0.80n$
C $y = 5.00 - n$
D $y = 5.00 + n$