

TULIS JAWAPAN DENGAN HURUF BESAR.

HIMPUNAN SOALAN PERCUBAAN MENGIKUT TOPIK

RM1 200. Berapakah pendapatan pasif Jasmin supaya aliran tunai itu adalah positif?
Jasmin's active income is RM3 500. Her fixed expenses and variable expenses are RM3 800 and RM1 200 respectively. How much is Jasmin's passive income so that the cash flow is positive?

- A RM1 000
- B RM1 200
- C RM1 500
- D RM2 000

Trial 2023, JUJ Pahang, Q31, Ans: ④

238 Jadual 4 menunjukkan lima langkah dalam proses pengurusan kewangan.
Table 4 shows five steps the financial management process.

G	Melaksanakan pelan kewangan Carrying out financial plan
H	Menetapkan matlamat kewangan Setting goals
L	Mengkaji semula dan menyemak kemajuan Reviewing and revising the progress
J	Mewujudkan pelan kewangan Creating financial plan
K	Menilai kedudukan kewangan Evaluating financial status

Antara berikut urutan yang manakah menunjukkan proses pengurusan kewangan yang betul?

Which of the following sequences shows the correct financial management process?

- A $H \rightarrow K \rightarrow J \rightarrow G \rightarrow L$
- B $L \rightarrow J \rightarrow H \rightarrow K \rightarrow G$
- C $K \rightarrow G \rightarrow J \rightarrow H \rightarrow L$
- D $H \rightarrow L \rightarrow K \rightarrow G \rightarrow J$

Trial 2023, JUJ Pahang, Q18, Ans: ②

239 Antara berikut, yang manakah suatu liabiliti?
Which of the following is liability?

- A Pelaburan/ Investment
- B Amanah saham/ Unit trust
- C Simpanan tetap/ Fixed savings
- D Hutang kad kredit/ Credit card debt

Trial 2023, JUJ Pahang, Q38, Ans: ④

240 Jadual 4 menunjukkan ringkasan pelan kewangan keluarga Puan Zara.
Table 4 shows the summary of Puan Zara's family financial plan.

Gaji bersih/ Net salary	RM6 000
Pendapatan pasif/ Passive income	RM1 800
Simpanan tetap bulanan/ Fixed monthly income	
Simpanan untuk dana kecemasan/ Savings for emergency fund	RM200
Jumlah perbelanjaan tetap bulanan/ Total monthly fixed expenses	RM3 250
Jumlah perbelanjaan tidak tetap bulanan/ Total monthly variable expenses	RM2 740

Diberi simpanan tetap bulanan ialah 10% daripada jumlah pendapatan bulanan. Tentukan pendapatan lebihan atau kurangan Puan Zara.

Given the fixed monthly income is 10% of the total monthly income. Determine the surplus of income or deficit of Puan Zara.

- A Pendapatan lebihan sebanyak RM830
Surplus of income of RM830
- B Pendapatan lebihan sebanyak RM1 010
Surplus of income of RM1 010
- C Kurangan sebanyak RM830
Deficit of RM830
- D Kurangan sebanyak RM1 010
Deficit of RM1 010

Trial 2023, JUJ Pahang, Q19, Ans: ②

241 Jadual 2 menunjukkan perbelanjaan Puan Shida.

Table 2 shows Puan Shida's expenses.

Perbelanjaan/ Expenses	RM
Premium insurans/ Insurance premium	180
Ansuran rumah/ House instalment	1250
Barangan runcit/ Groceries	160
Ansuran kereta/ Car instalment	400
Kos Perubatan/ Medical expenses	280
Pakaian/ Clothing	90

Hitung perbelanjaan tetap Puan Shida.

Calculate the fixed expenses of Puan Shida.

- A RM1 650
- B RM1 740
- C RM1 830
- D RM1 920

F5, 1.1 UBAHAN

Trial 2023, JUJ Pahang, Q21, Ans: ③

- 242 Diberi bahawa P berubah secara songsang dengan kuasa dua Q dan secara langsung dengan punca kuasa dua R .

Cari hubungan antara P , Q dan R

Given that P varies inversely as the square of Q and directly as the square root of R .

Find the relation between P , Q and R .

- A $P \propto \frac{Q^2}{\sqrt{R}}$
 B $P \propto \frac{R^2}{\sqrt{Q}}$
 C $P \propto \frac{\sqrt{Q}}{R^2}$
 D $P \propto \frac{\sqrt{R}}{Q^2}$

Trial 2023, PERLIS Q27, Ans: ①

- 243 Jadual 1 menunjukkan masa yang diperlukan untuk menyiapkan satu lembaran kerja, m dan bilangan murid, n

Table 1 shows the time needed to complete a worksheet, m and the number of students, n .

m	n
18	2
x	3

Diberi bahawa m berubah secara songsang dengan kuasa dua bilangan murid, n .

Cari nilai x .

It is given that m varies inversely as the square of the number of students, n . Find the value of x .

- A 8
 B 12
 C 18
 D 40.5

Trial 2023, P.GUDANG (SET 1), Q18, Ans: ②

- 244 Diberi bahawa $x \propto y^2 z$, ungkapkan x dalam sebutan y dan z jika $x = 6$ apabila $y = 2$ dan $z = 9$.

Given that $x \propto y^2 z$, express x in terms of y and z if $x = 6$ when $y = 2$ and $z = 9$.

- A $x = \frac{y^2 z}{3}$
 B $x = 6y^2 z$
 C $x = \frac{yz}{6}$
 D $x = \frac{y^2 z}{6}$

Trial 2023, PERLIS Q9, Ans: ①

- 245 Encik Nukman memandu dari Bandar Aman ke Bandar Damai sejauh j km, dengan laju, h

km/j dalam tempoh, m jam. Diberi hubungan antara laju, jarak dan masa ialah $h \propto \frac{j^2}{\sqrt{m}}$.

Antara yang berikut, yang manakah mewakili nilai-nilai h , j dan m apabila nilai pemalar ubahan, $k = 1$.

Encik Nukman drives from Bandar Aman dan Bandar Damai in a distance of j km, with the speed of h km/j in a period of m hours. Given the relation between the speed, distance and time is $h \propto \frac{j^2}{\sqrt{m}}$.

Which of the following represent the values of h , j and m when the values of the the values of h , j and m when the values of the variation constant, $k = 1$.

	h	j	m
A	100	100	10
B	105	23	25
C	110	100	2
D	125	25	25

Trial 2023, P.GUDANG (SET 1), Q19, Ans: ②

- 246 Jarak, s yang dilalui oleh sebuah bas sekolah berubah secara langsung dengan kuasa dua laju, v , dan secara songsang dengan pecutan, a . Diberi bahawa $s = 240$ m, $v = 12$ ms⁻¹ dan $a = 0.3$ ms⁻². Hitung nilai a apabila $s = 540$ m dan $v = 18$ ms⁻¹.

The distance, s travelled by a school bus varies directly as the square of the speed, v , and inversely as acceleration, a . Given that $s = 240$ m, $v = 12$ ms⁻¹ and $a = 0.3$ ms⁻². Calculate the value of a when $s = 540$ m and $v = 18$ ms⁻¹.

- A 0.15
 B 0.2
 C 0.3
 D 0.4

Trial 2023, SMKA/SABK (SET1), Q15, Ans: ③

- 247 Diberi w berubah secara langsung dengan x^2 dan secara songsang dengan z . Jika $w = 20$, apabila $x = 5$ dan $z = 2$, cari nilai z apabila $w = 160$ dan $x = 40$.

It is given that w varies directly as x^2 and inversely as z . If $w = 20$, when $x = 5$ and $z = 2$, find the value of z when $w = 160$ and $x = 40$.

- A $\frac{8}{5}$
 B $\frac{40}{25}$
 C 2

- A $\begin{pmatrix} 5 & -1 \\ 0 & -2 \end{pmatrix}$
 B $\begin{pmatrix} -5 & -1 \\ 0 & -7 \end{pmatrix}$
 C $\begin{pmatrix} 5 & 1 \\ 0 & 2 \end{pmatrix}$
 D $\begin{pmatrix} 8 & -1 \\ 6 & -7 \end{pmatrix}$

Trial 2023, SBP, Q33, Ans: **B**

259 Diberi bahawa matriks $M = \frac{1}{2} \begin{bmatrix} 12 & p \\ -10 & 4 \end{bmatrix}$

dan matriks $N = \begin{bmatrix} 6 & 3 \\ p+q & 2 \end{bmatrix}$.

Jika $M = N$, cari nilai q .

It is given that matrix $M = \frac{1}{2} \begin{bmatrix} 12 & p \\ -10 & 4 \end{bmatrix}$

and matrix $N = \begin{bmatrix} 6 & 3 \\ p+q & 2 \end{bmatrix}$

If $M = N$, find the value of q .

- A -8
 B -11
 C -13
 D -16

Trial 2023, P.GUDANG (SET 1), Q20, Ans: **B**

260 Diberi bahawa matriks $P = \begin{bmatrix} 5 & x+y \\ 4-x & -2 \end{bmatrix}$

dan matriks $Q = \begin{bmatrix} 5 & 8 \\ x & -2 \end{bmatrix}$.

Jika $P = Q$, cari nilai x dan y .

It is given that matrix $P = \begin{bmatrix} 5 & x+y \\ 4-x & -2 \end{bmatrix}$

and matrix $Q = \begin{bmatrix} 5 & 8 \\ x & -2 \end{bmatrix}$.

If $P = Q$, find the value of x and y

- A $x = -2, y = -6$
 B $x = 2, y = 6$
 C $x = 2, y = -6$
 D $x = -2, y = 10$

Trial 2023, PERLIS Q37, Ans: **C**

261 Diberi $P = \begin{pmatrix} 1 & -4 \\ -1 & 2 \end{pmatrix}$ dan $Q = \begin{pmatrix} 1 & 2x \\ -1 & 2 \end{pmatrix}$.

Jika $P = Q$, hitung nilai x .

Given $P = \begin{pmatrix} 1 & -4 \\ -1 & 2 \end{pmatrix}$ and $Q = \begin{pmatrix} 1 & 2x \\ -1 & 2 \end{pmatrix}$.

If $P = Q$, calculate the value of x .

- A -2
 B $-\frac{1}{2}$
 C $\frac{1}{2}$
 D 2

Trial 2023, SABK/SMKA (SET 2), Q39, Ans: **B**

262 $\frac{1}{4} \begin{pmatrix} 8 & -4 \\ -12 & 16 \end{pmatrix} - \begin{pmatrix} 2 & -2 \\ -4 & 1 \end{pmatrix} + \begin{pmatrix} -1 & 2 \\ -3 & -7 \end{pmatrix} =$

- A $\begin{pmatrix} -1 & 3 \\ -2 & 4 \end{pmatrix}$
 B $\begin{pmatrix} -1 & 3 \\ 2 & -4 \end{pmatrix}$
 C $\begin{pmatrix} -1 & 0 \\ -2 & -4 \end{pmatrix}$
 D $\begin{pmatrix} -1 & 3 \\ -2 & -4 \end{pmatrix}$

Trial 2023, SABK/SMKA (SET 2), Q40, Ans: **B**

263 Diberi bahawa

$$\begin{pmatrix} 3 \\ x \end{pmatrix} (y - 13) = \begin{pmatrix} 12 & -39 \\ -20 & 65 \end{pmatrix},$$

cari nilai x dan y .

$$\text{Given that } \begin{pmatrix} 3 \\ x \end{pmatrix} (y - 13) = \begin{pmatrix} 12 & -39 \\ -20 & 65 \end{pmatrix},$$

find the value of x and y .

- A $x = 4, y = -5$
 B $x = 4, y = \frac{1}{4}$
 C $x = -5, y = 4$
 D $x = -5, y = \frac{1}{4}$

Trial 2023, P.GUDANG (SET 1), Q21, Ans: **B**

264 Diberi $[2x \ -8] \begin{bmatrix} -2 & -3 \\ 2 & 1 \end{bmatrix} = [8 \ y + 20]$.

Hitung nilai x dan nilai y .

$$\text{Given } [2x \ -8] \begin{bmatrix} -2 & -3 \\ 2 & 1 \end{bmatrix} = [8 \ y + 20]$$

Find the value of x and y

- A $x = -6, y = 8$
 B $x = 6, y = 8$
 C $x = 3, y = 28$
 D $x = 20, y = 8$

Trial 2023, SBP, Q34, Ans: **A**

265 Diberi $\begin{pmatrix} 1 & g \\ h & -3 \end{pmatrix} \begin{pmatrix} 4 \\ -7 \end{pmatrix} = \begin{pmatrix} -31 \\ 29 \end{pmatrix}$, hitung nilai g dan nilai h .

Given $\begin{pmatrix} 1 & g \\ h & -3 \end{pmatrix} \begin{pmatrix} 4 \\ -7 \end{pmatrix} = \begin{pmatrix} -31 \\ 29 \end{pmatrix}$, calculate the value of g and of h .

- A $g = 5, h = 2$
 B $g = 5, h = 8$
 C $g = -8, h = 8$
 D $g = 8, h = 8$

Trial 2023, PERLIS Q28, Ans: 2

266 Diberi $(7 \ 3) \begin{pmatrix} 1 \\ 2 \end{pmatrix} = P$. Cari matriks P .Given $(7 \ 3) \begin{pmatrix} 1 \\ 2 \end{pmatrix} = P$. Find the matrix P .

A $\begin{pmatrix} 7 & 3 \\ 14 & 6 \end{pmatrix}$

B $\begin{pmatrix} 7 & 6 \end{pmatrix}$

C $\begin{pmatrix} 7 \\ 6 \end{pmatrix}$

D (13)

Trial 2023, UD3 Melaka, Q4, Ans: 2

267 $\begin{bmatrix} -3 & 8 \\ 2 & 4 \end{bmatrix} - \begin{bmatrix} -4 & 1 \\ 5 & -2 \end{bmatrix} + \begin{bmatrix} 4 & -1 \\ -2 & -3 \end{bmatrix} =$

A $\begin{bmatrix} 5 & 6 \\ 5 & -3 \end{bmatrix}$

B $\begin{bmatrix} 5 & 6 \\ -5 & 3 \end{bmatrix}$

C $\begin{bmatrix} -5 & -6 \\ -5 & 3 \end{bmatrix}$

D $\begin{bmatrix} -5 & 6 \\ 5 & -3 \end{bmatrix}$

Trial 2023, JOHOR (SET 2), Q39, Ans: 2

268 Diberi bahawa $(5t \ 2t) \begin{pmatrix} 6 \\ -6 \end{pmatrix} = (8)$. Hitung nilai t .Given $(5t \ 2t) \begin{pmatrix} 6 \\ -6 \end{pmatrix} = (8)$. Calculate the value of t .

A $\frac{1}{2}$

B $\frac{4}{9}$

C $\frac{1}{4}$

D $\frac{4}{21}$

Trial 2023, JOHOR (SET 2), Q38, Ans: 4

269 Antara matriks berikut, yang manakah tidak mempunyai songsangan?
Which of the following matrices does not have an inverse?

A $\begin{pmatrix} -3 & -9 \\ 1 & 3 \end{pmatrix}$

B $\begin{pmatrix} -3 & 9 \\ -1 & -3 \end{pmatrix}$

C $\begin{pmatrix} -3 & -9 \\ 1 & -3 \end{pmatrix}$

D $\begin{pmatrix} -3 & -9 \\ -1 & 3 \end{pmatrix}$

Trial 2023, JUJ Pahang, Q32, Ans: 2

270 Diberi bahawa/ It is given that

$$(5 \ 2) \begin{pmatrix} 3 & 1 \\ 6 & -7 \end{pmatrix} = \frac{x}{4} (36 \ -12)$$

Hitung nilai x .Calculate the value of x .

A 2

B 3

C 5

D 6

Trial 2023, UD3 Melaka, Q3, Ans: 10

Antara berikut yang manakah matriks sama

271 bagi $\begin{bmatrix} 11 \\ -6.5 \end{bmatrix}$?

Which of the following is the equal matrix for

$\begin{bmatrix} 11 \\ -6.5 \end{bmatrix}$?

A $\begin{bmatrix} 11 & -6.5 \end{bmatrix}$

B $\begin{bmatrix} -11 \\ 6.5 \end{bmatrix}$

C $\begin{bmatrix} 11 & -\frac{13}{2} \end{bmatrix}$

D $\begin{bmatrix} 11 \\ -\frac{13}{2} \end{bmatrix}$

Trial 2023, SMKA/SABK (SET 1), Q39, Ans: 2

272 Diberi bahawa M ialah matriks 2×2 danIt is given that M is 2×2 matrix and

$$M^{-1} = \frac{1}{-1(3) - 2(-6)} \begin{pmatrix} p & -2 \\ q & -1 \end{pmatrix}$$

Cari nilai p dan nilai q .Find the value of p and value of q .

A $p = 3, q = 6$

B $p = -3, q = 6$

C $p = 3, q = -6$

D $p = -3, q = -6$

F5.3.1 INSURANS

Trial 2023, PERLIS Q3, Ans: 1

273 Antara berikut, yang manakah bukan insurans am?

Which of the following is not general insurance?

A Insurans kemalangan