



AJI SYAHPUTRA [11-TPM-1]

Started on Wednesday, 6 April 2022, 08:07

State In progress

Question 1

Answer saved

Marked out of 1



Edit question

Diketahui vektor $\vec{u} = 3\hat{i} + 2\hat{j} - \hat{k}$, $\vec{v} = 3\hat{i} + 9\hat{j} - 12\hat{k}$ | Jika vektor $2\vec{u} - a\vec{v}$ tegak lurus \vec{v} , maka nilai $a = \dots$

Select one:

- 1
- 3
- 1
- $-\frac{1}{3}$
- $\frac{1}{3}$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	
2	6/04/22, 08:08	Saved: 1	Answer saved	

Question 2

Answer saved

Marked out of 1



Edit question

Diketahui vektor $\vec{a} = \hat{i} + 2\hat{j} - 3\hat{k}$, $\vec{b} = 3\hat{i} + 5\hat{k}$, $\vec{c} = -2\hat{i} - 4\hat{j} + \hat{k}$ | dan $\vec{u} = 2\vec{a} + \vec{b} - \vec{c}$ | Vektor \vec{u} adalah

Select one:

- $2\hat{i} - 2\hat{j}$
- $7\hat{i} - 8\hat{j} - 2\hat{k}$
- $7\hat{i} + 8\hat{j} - 2\hat{k}$
- $5\hat{i} + 6\hat{j} + \hat{k}$
- $3\hat{i} - 2\hat{j} - 2\hat{k}$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Step	Waktu	Action	State	Marks
2	6/04/22, 08:08	Saved: $(7\hat{i}+8\hat{j}-2\hat{k})$	Answer saved	

Question 3

Answer saved

Marked out of 1



Edit question

Diketahui $A(1,2,3)$, $B(3,3,1)$, dan $C(7,5,-3)$, Jika A,B, dan C segaris (kolinear), maka $\vec{AB} : \vec{BC}$ adalah

Select one:

- 2:5
 7:5
 5:7
 1:2
 2:1

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	
2	6/04/22, 08:08	Saved: 7:5	Answer saved	

Question 4

Answer saved

Marked out of 1



Edit question

Diketahui vektor-vektor $\vec{a} = (1, 3, 3)$, $\vec{b} = (3, 2, 1)$ dan $\vec{c} = (1, -5, 0)$. Sudut antara vektor $(\vec{a} - \vec{b})$ dan $(\vec{a} + \vec{c})$ adalah....

Select one:

- 90
 100
 45
 60
 30

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	
2	6/04/22, 08:08	Saved: 100	Answer saved	

Question 5

Answer saved

Marked out of 1



Edit question

Suatu fungsi kuadrat mempunyai nilai minimum -2 untuk $x = 3$ dan untuk $x = 0$ nilai fungsi 16. Fungsi kuadrat itu adalah ...

Select one:

- $f(x) = x^2 + 6x + 8$
- $f(x) = x^2 - 6x + 8$
- $f(x) = 2x^2 + 12x + 16$
- $f(x) = 2x^2 - 12x + 16$
- $f(x) = 2x^2 - 12x - 16$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	
2	6/04/22, 08:08	Saved: $(f(x) = 2x^2 - 12x - 16)$	Answer saved	

Question 6

Answer saved

Marked out of 1



Edit question

Diketahui vektor $\vec{a} = (2, -3, 1)$ dan $\vec{b} = (1, -2, 3)$. Nilai sinus sudut antar vektor \vec{a} dan \vec{b} adalah ...

Select one:

- $\frac{5\sqrt{3}}{11}$
- $\frac{5\sqrt{3}}{14}$
- $\frac{5}{7}$
- $\frac{11}{14}$
- $\frac{2\sqrt{6}}{7}$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	
2	6/04/22, 08:08	Saved: $(\frac{5\sqrt{3}}{14})$	Answer saved	

Question 7

Answer saved

Marked out of 1



Edit question

Diketahui \vec{a}, \vec{b} dan \vec{c} adalah vektor satuan yang membentuk sudut 60° satu sama lain. Nilai $(\vec{a} + \vec{b}) \cdot (\vec{b} - \vec{c}) = \dots$

Select one:

- 2
- $\frac{1}{2}$
- $\frac{1}{4}$
- $\frac{1}{8}$
- 1

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	
2	6/04/22, 08:08	Saved: $\frac{1}{8}$	Answer saved	

Question 8

Answer saved

Marked out of 1



Edit question

Diketahui bahwa $\vec{a} = \begin{pmatrix} 1 \\ 2 \\ -3 \end{pmatrix}, \vec{b} = \begin{pmatrix} 4 \\ 4 \\ m \end{pmatrix}, \vec{c} = \begin{pmatrix} 3 \\ -4 \\ 5 \end{pmatrix}$. Jika \vec{a} tegak lurus \vec{b} , maka hasil dari $\vec{a} + 2\vec{b} - \vec{c} = \dots$

Select one:

- $\vec{a} = \begin{pmatrix} 6 \\ 14 \\ 10 \end{pmatrix}$
- $\vec{a} = \begin{pmatrix} 6 \\ 14 \\ 12 \end{pmatrix}$
- $\vec{a} = \begin{pmatrix} 6 \\ 14 \\ 0 \end{pmatrix}$
- $\vec{a} = \begin{pmatrix} 6 \\ 14 \\ 6 \end{pmatrix}$
- $\vec{a} = \begin{pmatrix} 6 \\ 14 \\ 14 \end{pmatrix}$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	
2	6/04/22, 08:09	Saved: $\vec{a} = \begin{pmatrix} 6 \\ 14 \\ 6 \end{pmatrix}$	Answer saved	

Question 9

Answer saved

Marked out of 1



Edit question

Himpunan penyelesaian dari $3x^2 - 2x - 8 > 0$ untuk $x \in \mathbb{R}$ adalah

Select one:

- $\{x \mid x < -\frac{4}{3} \text{ atau } x > 2, x \in \mathbb{R}\}$
- $\{x \mid x < \frac{4}{3} \text{ atau } x > 3, x \in \mathbb{R}\}$
- $\left\{ x \mid -\frac{4}{3} < x < 3 \right\}$
- $\{x \mid x < \frac{4}{3} \text{ atau } x > 4, x \in \mathbb{R}\}$
- $\left\{ x \mid -\frac{4}{3} < x < 3 \right\}$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	
2	6/04/22, 08:09	Saved: $\left\{ x \mid x < -\frac{4}{3} \text{ atau } x > 2, x \in \mathbb{R} \right\}$	Answer saved	

Question 10

Not yet answered

Marked out of 1



Edit question

Jika x_1 dan x_2 adalah akar - akar persamaan kuadrat $x^2 + px + 1 = 0$, maka persamaan kuadrat yang akar - akarnya $\frac{2}{x_1} + \frac{2}{x_2}$ dan $x_1 + x_2$ adalah ...

Select one:

- $x^2 - 2p^2x + 3p = 0$
- $x^2 + p^2x + p = 0$
- $x^2 - 3px + 2p^2 = 0$
- $x^2 + 3px + 2p^2 = 0$
- $x^2 + 2px + 3p^2 = 0$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 11

Not yet answered

Marked out of 1



Edit question

Persamaan $(1 - m)x^2 - (8 - 2m)x + 12 = 0$ ($(1 - m)x^2 + (8 - 2m)x + 12 = 0$) mempunyai akar kembar, maka nilai $m = \dots$

Select one:

- 2
- $\frac{3}{2}$

- $-\frac{3}{2}$
- 2
- 0

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 12

Not yet answered

Marked out of 1



[Edit question](#)

Jika sudut antara vektor $\vec{a} = \hat{i} + \sqrt{2}\hat{j} - p\hat{k}$, $\vec{b} = \hat{i} - \sqrt{2}\hat{j} + p\hat{k}$ adalah 60° maka $p = \dots$

Select one:

- $\sqrt{2}$ atau $-\sqrt{2}$
- $\sqrt{5}$ atau $-\sqrt{5}$
- $-\frac{\sqrt{5}}{2}$ atau $\frac{\sqrt{5}}{2}$
- 1 atau -1
- $\frac{1}{2}$ atau $-\frac{1}{2}$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 13

Not yet answered

Marked out of 1



[Edit question](#)

Absis titik balik grafik fungsi $f(x) = px^2 + (p-3)x + 2$ adalah p . Nilai $p = \dots$

Select one:

- 3
- 1
- $\frac{2}{3}$
- $-\frac{3}{2}$
- 3

Response history

Step	Waktu	Action	State	Marks
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Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 14

Not yet answered

Marked out of 1



Edit question

Diketahui panjang vektor $|\vec{a}| = 2$ dan panjang vektor $|\vec{b}| = 4$ sudut antara vektor \vec{a} dan \vec{b} adalah 60° maka $\vec{a} + \vec{b} = \dots$

Select one:

- $2\sqrt{5}$
- 12
- $7\sqrt{2}$
- $\sqrt{7}$
- $2\sqrt{7}$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 15

Not yet answered

Marked out of 1



Edit question

Persamaan kuadrat $2x^2 - 5x - 3 = 0$ memiliki akar-akar dan . Persamaan kuadrat baru yang akar-akarnya $\frac{\alpha}{5}$ dan $\frac{\beta}{5}$ adalah

Select one:

- $2x^2 - x - 6 = 0$
- $50x^2 + 25x + 3 = 0$
- $50x^2 - 25x - 3 = 0$
- $2x^2 - 13x - 15 = 0$
- $50x^2 - 25x + 3 = 0$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 16

Not yet answered


Marked out of 1



Jika akar-akar persamaan kuadrat $3x^2 - x - 2 = 0$ adalah dan . Nilai $\frac{1}{\alpha} + \frac{1}{\beta}$ adalah ...

Select one:

- $-\frac{1}{2}$

 Edit question

- $\frac{1}{3}$
- $\frac{1}{6}$
- $\frac{2}{3}$
- $\frac{1}{9}$

Response history


Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 17

Not yet answered

Marked out of 1



 Edit question

Hasil kali vektor $\vec{a} = \begin{pmatrix} 2 \\ -2 \end{pmatrix}$ dan $\vec{b} = \begin{pmatrix} -3 \\ 4 \end{pmatrix}$ yang bersudut 60° adalah:

Select one:

- 8
- $5\sqrt{2}$
- 25
- $10\sqrt{2}$
- 23

Response history


Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 18

Not yet answered

Marked out of 1



 Edit question

$A=(-1, 5, 4)$, $B=(2, -1, -2)$, $C=(3, p, q)$ Jika titik-titik A, B, dan C segaris maka nilai p dan q berturut-turut adalah....

Select one:

- 3 dan -4
- 1 dan -4
- 3 dan 0
- 1 dan 0
- 3 dan 0

Response history

Step	Waktu	Action	State	Marks
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Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 19

Not yet answered

Marked out of 1



[Edit question](#)

Diketahui persamaan kuadrat $(p - 1)x^2 - 4px + 5p + 6 = 0$. Nilai a agar persamaan tersebut memiliki akar kembar adalah...

Select one:

- $p = -1$ atau $p = 2$
- $p = -3$ atau $p = 2$
- $p = 2$ atau $p = 2$
- $p = -2$ atau $p = 2$
- $p = 3$ atau $p = 2$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 20

Not yet answered

Marked out of 1



[Edit question](#)

Besar vektor dari titik A(3, -5) dan titik B (-2, 7) adalah

Select one:

- 144
- 13
- 169
- 10
- 12

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 21

Not yet answered

Marked out of 1



[Edit question](#)

Grafik fungsi yang titik baliknya di P(1, -4) dan memotong sumbu y di titik Q(2, -3) mempunyai persamaan ...

Select one:

- $y = x^2 - 2x - 3$
- $y = 2x^2 - 2x - 7$

- $y = x^2 - x - 4$
- $y = 2x^2 - x - 5$
- $y = x^2 - 2x - 7$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 22

Not yet answered

Marked out of 1



[Edit question](#)

Persamaan $2x^2 + qx + (q - 1) = 0$ mempunyai akar - akar x_1 dan x_2 . Jika $x_1^2 + x_2^2 = 4$, maka nilai $q = \dots$

Select one:

- 3 dan 5
- 2 dan 6
- 4 dan 4
- 6 dan 2
- 6 dan -2

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 23

Not yet answered

Marked out of 1



[Edit question](#)

Vektor $\vec{PQ} = (2, 0, 1)$ dan $\vec{PR} = (1, 1, 2)$ jika $\vec{PS} = \frac{1}{2}\vec{PQ}$ maka vektor $\vec{RS} = \dots$

Select one:

- $(-1, 0, -\frac{3}{2})$
- $(\frac{3}{2}, 1, 0)$
- $(\frac{1}{2}, 0, 1)$
- $(0, -1, -\frac{3}{2})$
- $(1, -1, 1)$

Response history

Step	Waktu	Action	State	Marks
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Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 24

Not yet answered

Marked out of 1



Edit question

Persamaan kuadrat $x^2 - 5x + 6 = 0$ mempunyai akar - akar x_1 dan x_2 . Persamaan kuadrat yang akar - akarnya $x_1 - 3$ dan $x_2 - 3$ adalah ...

Select one:

- $x^2 - 2x = 0$
- $x^2 + x + 30 = 0$
- $x^2 + x = 0$
- $x^2 - 2x - 30 = 0$
- $x^2 - 2x + 30 = 0$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 25

Not yet answered

Marked out of 1



Edit question

Akar-akar persamaan kuadrat $2x^2 + mx + 16 = 0$ adalah x_1 dan x_2 . Jika $x_1 = 2x_2$ dan x_1, x_2 positif, nilai yang memenuhi adalah ... m

Select one:

- 12
- 2
- 18
- 6
- 2

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 26

Not yet answered

Marked out of 1

Jika nilai diskriminan persamaan kuadrat $2x^2 - 9x + c = 0$ adalah 121, maka $c = \dots$

Select one:

- 5



Edit question

- 8
- 8
- 5
- 2

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 27

Not yet answered

Marked out of 1



Edit question

Jika \vec{u} dan \vec{v} adalah dua vektor satuan yang membentuk sudut 45° , maka $(\vec{u} + \vec{v}) \cdot \vec{v} = \dots$

Select one:

- $\sqrt{2}$
- $\frac{2+\sqrt{2}}{2}$
- $\frac{2+\sqrt{2}}{2}$
- $\frac{2-\sqrt{2}}{2}$
- $2\sqrt{2}$

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 28

Not yet answered

Marked out of 1



Edit question

Akar-akar persamaan kuadrat $(2x^2 + x - 6 = 0)$ adalah...

Select one:

- 6 dan 2
- 2 dan $1\frac{1}{2}$
- 4 dan 3
- 2 dan $1\frac{1}{2}$
- 4 dan 3

Response history

Step	Waktu	Action	State	Marks
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Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 29

Not yet answered

Marked out of 1



[Edit question](#)

Nilai maksimum dari fungsi $f(x) = -2x^2 + (k + 5)x + 1 - 2k$ adalah 5. Nilai k yang positif adalah ...

Select one:

- 6
- 7
- 8
- 9
- 5

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Question 30

Not yet answered

Marked out of 1



[Edit question](#)

Diketahui vektor $\vec{a} = \hat{i} + 2\hat{j} - x\hat{k}$, $\vec{b} = 3\hat{i} - 2\hat{j} + \hat{k}$, $\vec{c} = -2\hat{i} + \hat{j} + 2\hat{k}$ | Jika \vec{a} tegak lurus \vec{c} , maka nilai dari $(\vec{a} + \vec{b}) \cdot (\vec{a} - \vec{c})$ adalah

Select one:

- 0
- 4
- 2
- 4
- 2

Response history

Step	Waktu	Action	State	Marks
1	6/04/22, 08:07	Started	Not yet answered	

Finish review