By Laudo Lukoki (28858) and Ibin Roshan (31455)

Exercise Question

Solve SLE:

$$4a - 6b + c = 1$$

$$2a - b + c = 5$$

$$-6a + 3b - 2c = -3$$

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Exercise Question

Solve SLE:

$3x + y - z = 1$

$x - y + z = -3$

$2x + y + z = 0$

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Exercise Question

$x=2+3i$ and $y=1-i$

Express the Polar Form of $z=xy$

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Exercise Question

x=1 is a solution.

Find the remaining roots of $z = x^4 + x^3 + x^2 + 3x - 6$

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Exercise Question

v1=(3,4,2); v2=(3,2,1); v3=(7,10,0); v4=(2,2,3).

Calculate (v1×v3)·v2

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Exercise Question

v1=(3,4,2); v2=(3,2,1)

if v1 is the tension force and v2 is direction, what's the resultant force projected on v2?

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Exercise Question

A plane has points A:(1,3,4) B:(5,5,5) C:(4,7,4).

Express its equation in the normal and coordinate forms.

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Exercise Question

Find $\lim\limits_{t \to 0} \dfrac{t-4}{t^2-t-12}$

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Exercise Question

Find $\lim\limits_{x \to 4} \sqrt{x2 - 5x + 2}$

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Exercise Question

Compute $\frac{d}{dx}\left(\frac{x^3}{x+4}\right)$ and give its domain

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Exercise Question

Find antiderivative $\int 3cos(3x + 2)dx$

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Theoretical Question

What is the Fundamental Law of Algebra?

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Theoretical Question

What is Heron's Method?

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Theoretical Question

What did Complex Numbers allow for in terms of the number System?

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Theoretical Question

When does an SLE not have solutions?

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Theoretical Question

When does an SLE have infinite solutions?

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Theoretical Question

When does an SLE have unique solutions?

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Theoretical Question

When is an SLE in row-echelon form?

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Theoretical Question

What does the exponentiation of Complex numbers do?

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Theoretical Question

Name 3 scalar and 3 vector quantities

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Theoretical Question

Which mathematical algorithm converts a Plane equation from coordinate to parameter form?

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Theoretical Question

When is the Dot Product 0?

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Theoretical Question

When is the Cross Product 0?

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Theoretical Question

When is a function continuous?

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Theoretical Question

What is Fermat's Theorem?

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Theoretical Question

What is the first part of the Fundamental Theorem of Calculus?

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Theoretical Question

What is the second part of the Fundamental Theorem of Calculus?

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Theoretical Question

What is a Critical Point in curve sketching?

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Theoretical Question

What is a Point of Inflection in curve sketching?

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Theoretical Question

What is $\lim\limits_{x \to 2} \sin\left(\dfrac{x}{\pi}\right)$?

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LUCK

Experts admire your collection, you get 10€ for each relic you own.

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LUCK

Experts question the legitimacy of your collection, pay 10€ for each relic you own

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LUCK

You get a Jail Free card, which you can use next time you are imprisoned

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LUCK

You tried to forge fake documents for your relics, go to jail!

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LUCK

You made a room with low temperature and low humidity to store relics, pay 200€

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LUCK

You forgot to pay shipping taxes; you must pay 20€

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LUCK

Your "Relic Informant" charges you for their services, pay 50€

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LUCK

Move 3 steps forward

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LUCK

Move 4 steps back

By Laudo Lukoki (28858) and Ibin Roshan (31455)

LUCK

Memberships have a rewards system, get 10€ for every membership.

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LUCK

You look tired, go take a rest

By Laudo Lukoki (28858) and Ibin Roshan (31455)

LUCK

Membership is costly, pay 100€ per Appraisers membership you have

By Laudo Lukoki (28858) and Ibin Roshan (31455)

LUCK

Delegating is an important skill, choose a person to answer your next TQ or EQ