

Exercise Question



$x=2+3i$ and $y=1-i$
Express the Polar Form of $z=xy$

Exercise Question



Solve SLE:
 $3x + y - z = 1$
 $x - y + z = -3$
 $2x + y + z = 0$

Exercise Question



Solve SLE:
 $4a - 6b + c = 1$
 $2a - b + c = 5$
 $-6a + 3b - 2c = -3$

Exercise Question



$v_1=(3,4,2)$; $v_2=(3,2,1)$
if v_1 is the tension force and v_2 is direction, what's the resultant force projected on v_2 ?

Exercise Question



$v_1=(3,4,2)$; $v_2=(3,2,1)$; $v_3=(7,10,0)$; $v_4=(2,2,3)$.
Calculate $(v_1 \times v_3) \cdot v_2$

Exercise Question



$x=1$ is a solution.
Find the remaining roots of $z = x^4 + x^3 + x^2 + 3x - 6$

Exercise Question



Find $\lim_{x \rightarrow 4} \sqrt{x^2 - 5x + 2}$

Exercise Question



Find $\lim_{t \rightarrow 0} \frac{t-4}{t^2-t-12}$

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.

Theoretical Question



What is the Fundamental Law of Algebra?

Theoretical Question



When does an SLE not have solutions?

Theoretical Question



When is an SLE in row-echelon form?

Exercise Question



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

Theoretical Question



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

Theoretical Question



When does an SLE have unique solutions?

Exercise Question



Compute $\frac{d}{dx}(\frac{x^3}{x^2+y})$ and give its domain

Theoretical Question



What is Heron's Method?

Theoretical Question



When does an SLE have infinite solutions?

Theoretical Question



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

Theoretical Question



When is a function continuous?

Theoretical Question



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

Theoretical Question



Name 3 scalar and 3 vector quantities

Theoretical Question



When is the Cross Product 0?

Theoretical Question



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

Theoretical Question



What does the exponentiation of Complex numbers do?

Theoretical Question



When is the Dot Product 0?

Theoretical Question



What is Fermat's Theorem?

Theoretical Question



What is $\lim_{x \rightarrow -2} \sin(\frac{x}{6})$?

Theoretical Question



What is a Point of inflection in curve sketching?

Theoretical Question



What is a Critical Point in curve sketching?

LUCK



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

LUCK



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

LUCK



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

LUCK



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

LUCK




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

LUCK




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


LUCK


Move 4 steps back


LUCK


Move 3 steps forward


LUCK


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


LUCK


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


LUCK


You look tired, go take a rest

LUCK


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

LUCK


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