CLAT Community

daily QT

SECTIONAL TEST

23 DAYS TO GO FOR **CLAT 2027**

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OUR RANKERS

1 in every 4 of CLAT Community's students are now placed in Top 5 NLUs.



ALL INDIA RANK **15**

SAHER GOLE



ALL INDIA RANK **17**

PARTHIVA SUSHANTH



ALL INDIA RANK **61**

MIHIKA AGGARWAL



ALL INDIA RANK **79**

SUHIT KENDURKAR



ALL INDIA RANK **86**

RIYA CHAUHAN



ALL INDIA RANK **100**

SHEIKH EHSAAN KHALEELULLAH



ALL INDIA RANK **104**

HRISHIT PODDAR



ALL INDIA RANK **137**

ROHAN YADAV



ALL INDIA RANK **146**

TEJAS ROY



ALL INDIA RANK **147**

ANIRUDDH BAJAJ



ALL INDIA RANK **189**

KABIR WADHWANI



ALL INDIA RANK **263**

CANCHI SISTLA AKSHARA



ALL INDIA RANK **319**

SHIVAM TRIPATHI



ALL INDIA RANK **413**

HARDIK GAUTAM



ALL INDIA RANK **NLSIU**

MANYA BHASKAR



ALL INDIA RANK **NLSIU**

NAMASHRITA GOPINATH



ALL INDIA RANK **NLSIU**

RONIL DHASAL



ALL INDIA RANK **NALSAR**

VEDA RAO



ALL INDIA RANK **NLSIU**

SAMANDAR SINGH



ALL INDIA RANK **NALSAR**

GANJI HAINDAVI



ALL INDIA RANK **NALSAR**

SAHISHNA



ALL INDIA RANK **NLSIU**

PRANAV. S

AND MANY MORE.

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OUR COURSES

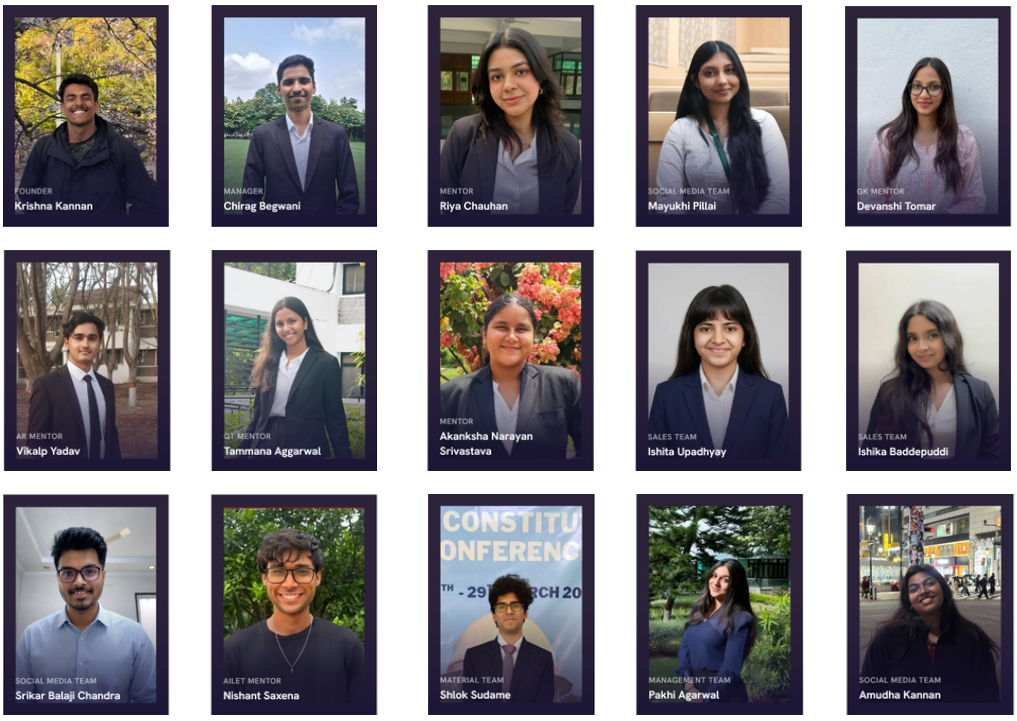








OUR MENTORS



MENTORS' NOTE

Good morning everyone,

If you're reading this, you're already doing something that thousands of CLAT aspirants never do—you've shown up today. That might sound like a small thing, but over the next few months you'll realise that success in CLAT is rarely decided by one brilliant mock or one 12-hour study session. It's decided by the hundreds of ordinary days where you choose to sit down and study even when you don't feel like it.

The entire CLAT Community team is rooting for you. Whenever you're stuck, ask doubts, discuss questions, and make use of the people around you. You don't have to prepare alone. We hope today's material helps you take one more step towards your dream.

Now stop reading this note and get to work. Your future self will thank you for the effort you put in today.

All the best.

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DAILY QT

PASSAGE 1 — IDENTITY WORKS: SYMMETRIC EXPRESSIONS & ALGEBRAIC IDENTITIES

Identity Works is a tutoring company that teaches students to handle expressions involving two unknown numbers without finding the numbers themselves. A standard exercise gives the sum and the product of two positive numbers x and y, and asks for powers or differences of those numbers. The company's method rests on a small set of algebraic identities that connect the sum, the product and the squares of the two numbers.

The central identity is that the sum of squares equals the square of the sum minus twice the product. Higher powers are built from this step by step: the sum of cubes is the cube of the sum minus three times the product times the sum, and the fourth powers follow from the squares. The identity for the square of a difference is also used, since the difference of squares of two numbers equals the product of their sum and their difference. Students are taught to check each result by substituting a simple pair of numbers that share the same sum and product.

A common trap arises when a question asks for an expression that depends on the sign of the difference, since the difference of two numbers can be either positive or negative and only its square is fixed by the data. Examiners therefore ask for the absolute value or for an expression that does not depend on the sign. Unless stated otherwise, x and y are real numbers, and every answer is expected in its simplest integer form.

1. Two positive real numbers x and y satisfy $x + y = 10$ and $xy = 21$. The value of $x^2 + y^2$ is:

(A) 54

(B) 58

(C) 62

(D) 64

2. For the same x and y, the value of $x^3 + y^3$ is:

(A) 370

(B) 340

(C) 400

(D) 310

3. For the same x and y, the value of $(x - y)^2$ is:

(A) 8

(B) 12

(C) 16

(D) 20

4. For the same x and y, the value of $x^4 + y^4$ is:

(A) 2284

(B) 2600

(C) 2146

(D) 2482

5. For the same x and y, the absolute value of $x^3 - y^3$ is:

(A) 296

(B) 316

(C) 336

(D) 284

6. For the same x and y, the value of $1/x + 1/y$ is:

(A) 10/21

(B) 21/10

(C) 1/2

(D) 11/21

PASSAGE 2 — COORDINATE ATELIER: INTERCEPTS, DISTANCES & PARALLEL WIRES

Coordinate Atelier designs lighting frames whose supporting wires lie along straight lines in a flat plane. Each wire is described by a linear equation, and the designers use the points where a wire crosses the two axes to measure the triangle it forms with the axes. The area of that triangle depends only on the two intercepts, which are the x-intercept, where the wire meets the horizontal axis, and the y-intercept, where it meets the vertical axis.

The atelier also needs the distance from the origin to a wire, which is useful for checking how close a frame sits to a central support. A second task is to find the point on a wire that lies on the diagonal line where x and y are equal. A third task is to draw a new wire parallel to an existing one through a fixed point, which means keeping the coefficients of x and y while changing the constant term so that the new wire passes through the chosen point.

Designers are reminded that a wire parallel to another has the same slope, and that the triangle formed with the axes is always a right triangle. Unless stated otherwise, all coordinates are measured in metres on a single plane, the origin is the central support, and the areas required are areas of the triangles with the axes.

7. The area of the triangle formed by the wire $3x + 4y = 24$ with the two axes is:

(A) 12

(B) 24

(C) 20

(D) 30

8. The perpendicular distance from the origin to the wire $3x + 4y = 24$ is:

(A) 4.8

(B) 4

(C) 5

(D) 4.5

9. The point on the wire $3x + 4y = 24$ that lies on the line $y = x$ has x-coordinate:

(A) 3

(B) 8/3

(C) 24/7

(D) 24/5

10. The x-intercept of the wire through (2, 3) that is parallel to $3x + 4y = 24$ is:

(A) 8

(B) 6

(C) 9/2

(D) 4

11. The area of the triangle formed by the wire in Question 10 with the two axes is:

(A) 12

(B) 27/2

(C) 18

(D) 9

12. The area of the triangle formed by the wire 2x + 5y = 20 with the two axes is:

(A) 25

(B) 18

(C) 20

(D) 15

Also, find us on Discord: - https://discord.gg/9kFymfz7qN

Telegram: - https://t.me/CLAT_Community and Instagram: - https://www.instagram.com/clat_community/

ANSWER KEY

PASSAGE 1 — IDENTITY WORKS (SYMMETRIC EXPRESSIONS)

Q1: (B) 58 — $x^2 + y^2 = (x + y)^2 - 2xy = 100 - 42 = 58$.

Q2: (A) 370 — $x^3 + y^3 = (x + y)^3 - 3xy(x + y) = 1000 - 630 = 370$.

Q3: (C) 16 — $(x - y)^2 = (x + y)^2 - 4xy = 100 - 84 = 16$.

Q4: (D) 2482 — $x^4 + y^4 = (x^2 + y^2)^2 - 2(xy)^2 = 3364 - 882 = 2482$.

Q5: (B) 316 — $x^3 - y^3 = (x - y)(x^2 + xy + y^2) = (x - y)(58 + 21) = 79(x - y)$. Since $x - y = \pm 4$, the absolute value is 316.

Q6: (A) 10/21 — $1/x + 1/y = (x + y)/(xy) = 10/21$.

PASSAGE 2 — COORDINATE ATELIER (INTERCEPTS & DISTANCES)

Q7: (B) 24 — Intercepts are (8, 0) and (0, 6), so the area is $\frac{1}{2} \times 8 \times 6 = 24$.

Q8: (A) 4.8 — Distance = $|24| / \sqrt{(3^2 + 4^2)} = 24/5 = 4.8$.

Q9: (C) 24/7 — Setting $y = x$ gives $3x + 4x = 24$, so $x = 24/7$.

Q10: (B) 6 — The parallel wire is $3x + 4y = 3(2) + 4(3) = 18$. Its x-intercept is $18/3 = 6$.

Q11: (B) 27/2 — The y-intercept is $18/4 = 9/2$, so the area is $\frac{1}{2} \times 6 \times 9/2 = 27/2$.

Q12: (C) 20 — Intercepts are (10, 0) and (0, 4), so the area is $\frac{1}{2} \times 10 \times 4 = 20$.



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