Logic	Professors	The Major	Calculus I	“Category 5”
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500

Logic

100 POINTS

I am an odd number. Take away one letter and I become even.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Logic	100 POINTS

What is seven? (Take away the ‘s’ and it becomes ‘even’)

⇒ View Answer	⇒ Complete
⇒ View Question	⇒ Go Home

Logic

200 POINTS

Among the assertions made in this problem there are three errors.
What are they?

(a) $2 + 2 = 4$

(b) $4 \div \frac{1}{2} = 2$

(c) $3\frac{1}{5} \times 3\frac{1}{8} = 10$

(d) $7 - (-4) = 11$

(e) $-10(6 - 6) = -10$

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Logic

200 POINTS

What are **(b)**, **(e)** and the fact that there aren't three errors?

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Logic

300 POINTS

The next symbol in this sequence.

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

Logic

300 POINTS

What is ?

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

Logic

400 POINTS

A logician vacationing in the South Seas finds himself on an island inhabited by the two proverbial tribes of liars and truth-tellers. Members of one tribe always tell the truth, members of the other always lie. He comes to a fork in the road and has to ask a native bystander which branch he should take to reach a village. He has no way of telling whether the native is a truth-teller or a liar. The logician thinks a moment, then asks *one* question only. From the reply he knows which road to take. What did he ask?

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Logic

400 POINTS

"If I were to ask you if this road leads to the village, would you say yes?"

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Logic

500 POINTS

An intelligent horse learns arithmetic, algebra, geometry, and trigonometry but is unable to understand the Cartesian coordinates of the analytic geometry. What proverb does this suggest?

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Logic

500 POINTS

Proverb:

Do not put Descartes before the horse.

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

Professors

100 POINTS

The current Department Chair.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Professors	100 POINTS

Who is Professor Lakins?

⇒ View Answer	⇒ Complete
⇒ View Question	⇒ Go Home

Professors

200 POINTS

The Actuarial Adviser and has a PHD from Yale.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Professors

200 POINTS

Who is Dr. LoBello?

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

Professors

300 POINTS

The Engineering Liaison.

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

Professors	300 POINTS

Who is Professor Weir?

⇒ View Answer	⇒ Complete
⇒ View Question	⇒ Go Home

Professors

400 POINTS

The Dimensions Club Adviser.

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

Professors	400 POINTS

Who is Professor Werner?

⇒ View Answer	⇒ Complete
⇒ View Question	⇒ Go Home

Professors

500 POINTS

The ΠΜΕ Adviser.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Professors	500 POINTS

Who is Professor Carswell?

⇒ View Answer	⇒ Complete
⇒ View Question	⇒ Go Home

The Major	100 POINTS

Mathematics is in this division.

⇒ View Answer	⇒ Complete
⇒ View Question	⇒ Go Home

The Major	100 POINTS

What is Natural Science?

⇒ View Answer	⇒ Complete
⇒ View Question	⇒ Go Home

The Major

200 POINTS

The number of credits required for the Math major at Allegheny.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

The Major

200 POINTS

What is 43?

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

The Major

300 POINTS

The number of credits required for a Math minor at Allegheny.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

The Major

300 POINTS

What is 24?

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

The Major

400 POINTS

The required 300 level courses for a Math Major.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

The Major

400 POINTS

Linear Algebra (320)
Algebraic Structures I (325)
Introduction to Analysis (340)

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

The Major

500 POINTS

The 400 level Math courses.

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

The Major	500 POINTS

Topology (400)
Algebraic Structures II (425)
Real Analysis (440)

⇒ View Answer	⇒ Complete
⇒ View Question	⇒ Go Home

Calculus I	100 POINTS

$$\int \frac{dx}{5-3x}$$

⇒ View Answer	⇒ Complete
⇒ View Question	⇒ Go Home

$$-\frac{1}{3}ln|5-3x|+C$$

Calculus I

200 POINTS

$$\lim_{x \to \frac{\pi}{2}} \frac{1-\sin(x)}{\cos(x)^2}$$

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Calculus I

200 POINTS

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

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

Calculus I

300 POINTS

The values of a and b such that the line $2x + y = b$ is tangent to the parabola $y = ax^2$ when $x = 2$.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

$$a = -\frac{1}{2}$$
$$b = 2^{}$$

Calculus I

400 POINTS

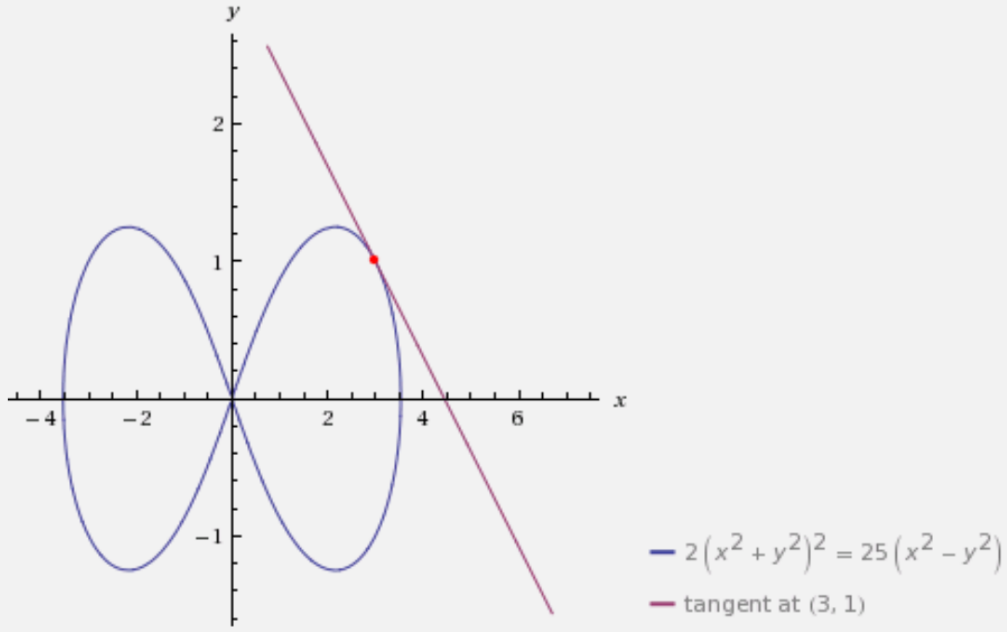
The equation of the line tangent to
$2(x^2 + y^2)^2 = 25(x^2 - y^2)$ at the point $(3, 1)$.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Calculus I

400 POINTS

$$y = \frac{40}{13} - \frac{9x}{13}$$



⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Calculus I

500 POINTS

$$\int \frac{3x^3-17x^2+36x-35}{x^2-4x+4}\,dx$$

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

Calculus I

500 POINTS

$$\frac{3}{2}x^2 - 5x + 4ln|x-2| + \frac{7}{x-2} + C$$

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

“Category 5”

100 POINTS

The year in which Allegheny College was founded.

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

“Category 5”

100 POINTS

What is 1815?

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

“Category 5”

200 POINTS

The course number of the Mathematics Junior Seminar.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

“Category 5”

200 POINTS

What is 585?

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

“Category 5”

300 POINTS

The 6th Fibonacci number.

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

“Category 5”

300 POINTS

What is 5?

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

“Category 5”

400 POINTS

The number that always results from the following:

1. Choose any number.
2. Add the next highest number to that number.
3. Add 9.
4. Divide by 2.
5. Subtract the original number.

⇒ View Answer
⇒ View Question
⇒ Complete
⇒ Go Home

“Category 5”

400 POINTS

What is 5?

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

“Category 5”

500 POINTS

The number of times can you take 5 from 25.

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home

“Category 5”

500 POINTS

What is 1? (Then it becomes 20)

⇒ View Answer

⇒ View Question

⇒ Complete

⇒ Go Home