#1 Calculus – Hustle
MAΘ National Convention 2022

Let $f(x) = \sum_{i=0}^{10} x^i$. Compute $f'(1)$.

Answer : _____

Round 1 2 3 4 5

#1 Calculus – Hustle
MAΘ National Convention 2022

Let $f(x) = \sum_{i=0}^{10} x^i$. Compute $f'(1)$.

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MAΘ National Convention 2022

Let $f(x) = \sum_{i=0}^{10} x^i$. Compute $f'(1)$.

Answer : _____

Round 1 2 3 4 5

#2 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\infty} \frac{1}{\mathrm{n} \cdot \ln(1+\frac{1}{n})}$$

Answer : _____

Round 1 2 3 4 5

#2 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\infty} \frac{1}{\mathrm{n} \cdot \ln(1+\frac{1}{n})}$$

Answer : _____

Round 1 2 3 4 5

#2 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\infty} \frac{1}{\mathrm{n} \cdot \ln(1+\frac{1}{n})}$$

Answer : _____

Round 1 2 3 4 5

#2 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\infty} \frac{1}{\mathrm{n} \cdot \ln(1+\frac{1}{n})}$$

Answer : _____

Round 1 2 3 4 5

#3 Calculus – Hustle
MAΘ National Convention 2022

Let $f(x) = x^{x \ln x}$. Compute $f'(e)$.

Answer : _____

Round 1 2 3 4 5

#3 Calculus – Hustle
MAΘ National Convention 2022

Let $f(x) = x^{x \ln x}$. Compute $f'(e)$.

Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2022

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Round 1 2 3 4 5

#3 Calculus – Hustle
MAΘ National Convention 2022

Let $f(x) = x^{x \ln x}$. Compute $f'(e)$.

Answer : _____

Round 1 2 3 4 5

#4 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\infty}\left(e^n - e^{\frac{n}{2}}\right)^{\frac{1}{n}}$$

Answer : _____

Round 1 2 3 4 5

#4 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\infty}\left(e^n - e^{\frac{n}{2}}\right)^{\frac{1}{n}}$$

Answer : _____

Round 1 2 3 4 5

#4 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\infty}\left(e^n - e^{\frac{n}{2}}\right)^{\frac{1}{n}}$$

Answer : _____

Round 1 2 3 4 5

#4 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\infty}\left(e^n - e^{\frac{n}{2}}\right)^{\frac{1}{n}}$$

Answer : _____

Round 1 2 3 4 5

#5 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\frac{\pi}{2}} (\cos n)^{(\tan n)}$$

Answer : _____

Round 1 2 3 4 5

#5 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\frac{\pi}{2}} (\cos n)^{(\tan n)}$$

Answer : _____

Round 1 2 3 4 5

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#5 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{n\to\frac{\pi}{2}} (\cos n)^{(\tan n)}$$

Answer : _____

Round 1 2 3 4 5

#6 Calculus – Hustle
MAΘ National Convention 2022

Let $f(x) = \sum_{i=0}^{5} x^i$. Find the value of

$$\int_0^1 f(x)\, dx$$

Answer : _____

Round 1 2 3 4 5

#6 Calculus – Hustle
MAΘ National Convention 2022

Let $f(x) = \sum_{i=0}^{5} x^i$. Find the value of

$$\int_0^1 f(x)\, dx$$

Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2022

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Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2022

Let $f(x) = \sum_{i=0}^{5} x^i$. Find the value of

$$\int_0^1 f(x)\, dx$$

Answer : _____

Round 1 2 3 4 5

#7 Calculus – Hustle
MAΘ National Convention 2022

Find the value of

$$\int_{-1}^{1} \sqrt{4 - x^2}\, dx$$

Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2022

Find the value of

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Answer : _____

Round 1 2 3 4 5

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Round 1 2 3 4 5

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Find the value of

$$\int_{-1}^{1} \sqrt{4 - x^2}\, dx$$

Answer : _____

Round 1 2 3 4 5

#8 Calculus – Hustle
MAΘ National Convention 2022

Estimate the area under $f(x) = x^3$ on the interval $[0, 5]$ using the right-hand approximation for 5 equal subintervals.

Answer : _____

Round 1 2 3 4 5

#8 Calculus – Hustle
MAΘ National Convention 2022

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Answer : _____

Round 1 2 3 4 5

#9 Calculus – Hustle
MAΘ National Convention 2022

Evaluate

$$\int_{\frac{\pi}{6}}^{\frac{\pi}{3}} \frac{1}{\sin x \cos x}\, dx$$

Answer : ____________________

Round 1 2 3 4 5

#9 Calculus – Hustle
MAΘ National Convention 2022

Evaluate

$$\int_{\frac{\pi}{6}}^{\frac{\pi}{3}} \frac{1}{\sin x \cos x}\, dx$$

Answer : ____________________

Round 1 2 3 4 5

#9 Calculus – Hustle
MAΘ National Convention 2022

Evaluate

$$\int_{\frac{\pi}{6}}^{\frac{\pi}{3}} \frac{1}{\sin x \cos x}\, dx$$

Answer : ____________________

Round 1 2 3 4 5

#9 Calculus – Hustle
MAΘ National Convention 2022

Evaluate

$$\int_{\frac{\pi}{6}}^{\frac{\pi}{3}} \frac{1}{\sin x \cos x}\, dx$$

Answer : ____________________

Round 1 2 3 4 5

#10 Calculus – Hustle
MAΘ National Convention 2022

Evaluate

$$\int \frac{1}{x\sqrt{x}+\sqrt{x}}\,dx$$

Answer : _____

Round 1 2 3 4 5

#10 Calculus – Hustle
MAΘ National Convention 2022

Evaluate

$$\int \frac{1}{x\sqrt{x}+\sqrt{x}}\,dx$$

Answer : _____

Round 1 2 3 4 5

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$$\int \frac{1}{x\sqrt{x}+\sqrt{x}}\,dx$$

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Round 1 2 3 4 5

#10 Calculus – Hustle
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Evaluate

$$\int \frac{1}{x\sqrt{x}+\sqrt{x}}\,dx$$

Answer : _____

Round 1 2 3 4 5

#11 Calculus – Hustle
MAΘ National Convention 2022

Andy has a farm. He also has 1000 ft of wood that he can use to make a fence. Since he has a barn longer than 1000 ft long, he can use it as one of the sides for his rectangular field. What's the maximum area he can enclose in his field?

Answer : ____________________

Round 1 2 3 4 5

#11 Calculus – Hustle
MAΘ National Convention 2022

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Answer : ____________________

Round 1 2 3 4 5

#12 Calculus – Hustle
MAΘ National Convention 2022

Buffy is pouring some water into his cubical cup at a rate of $5\frac{ml}{sec}$. His cube has side lengths of $5\ cm$. When the height of the water in his cup is $2\ cm$, how fast is the water level rising (in $\frac{cm}{sec}$)?

Answer : _____

Round 1 2 3 4 5

#12 Calculus – Hustle
MAΘ National Convention 2022

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Answer : _____

Round 1 2 3 4 5

#13 Calculus – Hustle
MAΘ National Convention 2022

Deez is good at waiting. He takes out a cake that is initially at $200^\circ F$ from an oven, and places it in a $80^\circ F$ room. After 10 minutes, the cake has cooled down to $140^\circ F$. How many minues must Deez wait from when he took the cake out until the cake reaches a warm $95^\circ F$? Assume that Newton's law of cooling applies to this cake.

Answer : _____

Round 1 2 3 4 5

#13 Calculus – Hustle
MAΘ National Convention 2022

Deez is good at waiting. He takes out a cake that is initially at $200^\circ F$ from an oven, and places it in a $80^\circ F$ room. After 10 minutes, the cake has cooled down to $140^\circ F$. How many minues must Deez wait from when he took the cake out until the cake reaches a warm $95^\circ F$? Assume that Newton's law of cooling applies to this cake.

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MAΘ National Convention 2022

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Answer : _____

Round 1 2 3 4 5

#14 Calculus – Hustle
MAΘ National Convention 2022

Jeffrey is a god at integrals. However, for some reason, he can't figure out how Riemann sums and integrals are related. Help him find the value of the following sum:

$$\lim_{n\to\infty}\sum_{i=1}^{n}\frac{1}{n}\left(e^{\frac{i}{n}}\cdot\frac{i}{n}\right)$$

Answer : _____

Round 1 2 3 4 5

#14 Calculus – Hustle
MAΘ National Convention 2022

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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MAΘ National Convention 2022

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Answer : _____

Round 1 2 3 4 5

#15 Calculus – Hustle
MAΘ National Convention 2022

Konwoo likes to draw spirals. Help him find the arc length of the spiral $r = e^{2\theta}$ formed from the **pole** to the point $(e^4, 2)$.

Answer : _____

Round 1 2 3 4 5

#15 Calculus – Hustle
MAΘ National Convention 2022

Konwoo likes to draw spirals. Help him find the arc length of the spiral $r = e^{2\theta}$ formed from the **pole** to the point $(e^4, 2)$.

Answer : _____

Round 1 2 3 4 5

#15 Calculus – Hustle
MAΘ National Convention 2022

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Answer : _____

Round 1 2 3 4 5

#15 Calculus – Hustle
MAΘ National Convention 2022

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Answer : _____

Round 1 2 3 4 5

#16 Calculus – Hustle
MAΘ National Convention 2022

What is the volume of the solid formed when the region bounded by $y = \frac{1}{x}, x = 1$ and the x-axis is revolved about the x-axis?

Answer : _____

Round 1 2 3 4 5

#16 Calculus – Hustle
MAΘ National Convention 2022

What is the volume of the solid formed when the region bounded by $y = \frac{1}{x}, x = 1$ and the x-axis is revolved about the x-axis?

Answer : _____

Round 1 2 3 4 5

#16 Calculus – Hustle
MAΘ National Convention 2022

What is the volume of the solid formed when the region bounded by $y = \frac{1}{x}, x = 1$ and the x-axis is revolved about the x-axis?

Answer : _____

Round 1 2 3 4 5

#16 Calculus – Hustle
MAΘ National Convention 2022

What is the volume of the solid formed when the region bounded by $y = \frac{1}{x}, x = 1$ and the x-axis is revolved about the x-axis?

Answer : _____

Round 1 2 3 4 5

#17 Calculus – Hustle
MAΘ National Convention 2022

What is the surface area of the solid formed when the region bounded by $y = \frac{1}{x}, x = 1$ and the x-axis is revolved about the x-axis?

Answer : _____

Round 1 2 3 4 5

#17 Calculus – Hustle
MAΘ National Convention 2022

What is the surface area of the solid formed when the region bounded by $y = \frac{1}{x}, x = 1$ and the x-axis is revolved about the x-axis?

Answer : _____

Round 1 2 3 4 5

#17 Calculus – Hustle
MAΘ National Convention 2022

What is the surface area of the solid formed when the region bounded by $y = \frac{1}{x}, x = 1$ and the x-axis is revolved about the x-axis?

Answer : _____

Round 1 2 3 4 5

#17 Calculus – Hustle
MAΘ National Convention 2022

What is the surface area of the solid formed when the region bounded by $y = \frac{1}{x}, x = 1$ and the x-axis is revolved about the x-axis?

Answer : _____

Round 1 2 3 4 5

#18 Calculus – Hustle
MAΘ National Convention 2022

Find the value of

$$\int_0^1 e^{e^x}\,dx + \int_e^{e^e} \ln(\ln(x))\,dx$$

Answer : _____

Round 1 2 3 4 5

#18 Calculus – Hustle
MAΘ National Convention 2022

Find the value of

$$\int_0^1 e^{e^x}\,dx + \int_e^{e^e} \ln(\ln(x))\,dx$$

Answer : _____

Round 1 2 3 4 5

#18 Calculus – Hustle
MAΘ National Convention 2022

Find the value of

$$\int_0^1 e^{e^x}\,dx + \int_e^{e^e} \ln(\ln(x))\,dx$$

Answer : _____

Round 1 2 3 4 5

#18 Calculus – Hustle
MAΘ National Convention 2022

Find the value of

$$\int_0^1 e^{e^x}\,dx + \int_e^{e^e} \ln(\ln(x))\,dx$$

Answer : _____

Round 1 2 3 4 5

#19 Calculus – Hustle
MAΘ National Convention 2022

Consider the region R bounded by the lines $y = -2x, y = 0$ and $x = 3$. Find the volume of the solid formed by revolving R around the line $3x + 4y = 12$.

Answer : ____________________

Round 1 2 3 4 5

#19 Calculus – Hustle
MAΘ National Convention 2022

Consider the region R bounded by the lines $y = -2x, y = 0$ and $x = 3$. Find the volume of the solid formed by revolving R around the line $3x + 4y = 12$.

Answer : ____________________

Round 1 2 3 4 5

#19 Calculus – Hustle
MAΘ National Convention 2022

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Answer : ____________________

Round 1 2 3 4 5

#19 Calculus – Hustle
MAΘ National Convention 2022

Consider the region R bounded by the lines $y = -2x, y = 0$ and $x = 3$. Find the volume of the solid formed by revolving R around the line $3x + 4y = 12$.

Answer : ____________________

Round 1 2 3 4 5

#20 Calculus – Hustle
MAΘ National Convention 2022

Determine the area of the region that falls in either $r = 1 + \cos\theta$ or $r = 1 + \sin\theta$.

Answer : _____

Round 1 2 3 4 5

#20 Calculus – Hustle
MAΘ National Convention 2022

Determine the area of the region that falls in either $r = 1 + \cos\theta$ or $r = 1 + \sin\theta$.

Answer : _____

Round 1 2 3 4 5

#20 Calculus – Hustle
MAΘ National Convention 2022

Determine the area of the region that falls in either $r = 1 + \cos\theta$ or $r = 1 + \sin\theta$.

Answer : _____

Round 1 2 3 4 5

#20 Calculus – Hustle
MAΘ National Convention 2022

Determine the area of the region that falls in either $r = 1 + \cos\theta$ or $r = 1 + \sin\theta$.

Answer : _____

Round 1 2 3 4 5

#21 Calculus – Hustle
MAΘ National Convention 2022

Find the value of

$$\sum_{i=1}^{\infty} \frac{1}{i^2}$$

Answer : _____

Round 1 2 3 4 5

#21 Calculus – Hustle
MAΘ National Convention 2022

Find the value of

$$\sum_{i=1}^{\infty} \frac{1}{i^2}$$

Answer : _____

Round 1 2 3 4 5

#21 Calculus – Hustle
MAΘ National Convention 2022

Find the value of

$$\sum_{i=1}^{\infty} \frac{1}{i^2}$$

Answer : _____

Round 1 2 3 4 5

#21 Calculus – Hustle
MAΘ National Convention 2022

Find the value of

$$\sum_{i=1}^{\infty} \frac{1}{i^2}$$

Answer : _____

Round 1 2 3 4 5

#22 Calculus – Hustle
MAΘ National Convention 2022

(T/F): Let us have two sequences of positive terms a_n and b_n. If we have that $\sum a_n$ and $\sum b_n$ both converge, then is it necessarily true that $\sum a_n b_n$ converges?

Answer : _____

Round 1 2 3 4 5

#22 Calculus – Hustle
MAΘ National Convention 2022

(T/F): Let us have two sequences of positive terms a_n and b_n. If we have that $\sum a_n$ and $\sum b_n$ both converge, then is it necessarily true that $\sum a_n b_n$ converges?

Answer : _____

Round 1 2 3 4 5

#22 Calculus – Hustle
MAΘ National Convention 2022

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Answer : _____

Round 1 2 3 4 5

#22 Calculus – Hustle
MAΘ National Convention 2022

(T/F): Let us have two sequences of positive terms a_n and b_n. If we have that $\sum a_n$ and $\sum b_n$ both converge, then is it necessarily true that $\sum a_n b_n$ converges?

Answer : _____

Round 1 2 3 4 5

#23 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{x\to 0}\frac{3\tan^{-1}x^2-3x^2+x^6}{x^{10}}$$

Answer : _____

Round 1 2 3 4 5

#23 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{x\to 0}\frac{3\tan^{-1}x^2-3x^2+x^6}{x^{10}}$$

Answer : _____

Round 1 2 3 4 5

#23 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{x\to 0}\frac{3\tan^{-1}x^2-3x^2+x^6}{x^{10}}$$

Answer : _____

Round 1 2 3 4 5

#23 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\lim_{x\to 0}\frac{3\tan^{-1}x^2-3x^2+x^6}{x^{10}}$$

Answer : _____

Round 1 2 3 4 5

#24 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\sum_{i=0}^{5} \binom{15}{3i}$$

Answer : _____

Round 1 2 3 4 5

#24 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\sum_{i=0}^{5} \binom{15}{3i}$$

Answer : _____

Round 1 2 3 4 5

#24 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\sum_{i=0}^{5} \binom{15}{3i}$$

Answer : _____

Round 1 2 3 4 5

#24 Calculus – Hustle
MAΘ National Convention 2022

Compute

$$\sum_{i=0}^{5} \binom{15}{3i}$$

Answer : _____

Round 1 2 3 4 5

#25 Calculus – Hustle
MAΘ National Convention 2022

Last question (unless you skipped several of the previous ones)! Let $f(x) = 1$. Compute

$$f'(0) + \int_0^1 f(x)dx$$

Answer : _____

Round 1 2 3 4 5

#25 Calculus – Hustle
MAΘ National Convention 2022

Last question (unless you skipped several of the previous ones)! Let $f(x) = 1$. Compute

$$f'(0) + \int_0^1 f(x)dx$$

Answer : _____

Round 1 2 3 4 5

#25 Calculus – Hustle
MAΘ National Convention 2022

Last question (unless you skipped several of the previous ones)! Let $f(x) = 1$. Compute

$$f'(0) + \int_0^1 f(x)\,dx$$

Answer : _____

Round 1 2 3 4 5

#25 Calculus – Hustle
MAΘ National Convention 2022

Last question (unless you skipped several of the previous ones)! Let $f(x) = 1$. Compute

$$f'(0) + \int_0^1 f(x)dx$$

Answer : _____

Round 1 2 3 4 5