



Hustle
Test #841
Calculus



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#1 Calculus - Hustle
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Evaluate:

$$\lim_{x \rightarrow 0} \left(\frac{1}{x} - \frac{1}{\sin x} \right)$$

Answer : _____

Round 1 2 3 4 5

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#2 Calculus - Hustle
MA \odot National Convention 2013

For the function $f(x) = x^3 + 2x + 5$,
find the value of $(f^{-1})'(5)$.

Answer : _____

Round 1 2 3 4 5

#2 Calculus - Hustle
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#3 Calculus - Hustle
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Evaluate:

$$\lim_{N \rightarrow \infty} \frac{1}{N} \sum_{j=1}^N \left(\frac{j}{N}\right)^4$$

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#4 Calculus - Hustle
MA \odot National Convention 2013

Evaluate:

$$\frac{d}{dx} \int_3^{x^3} \sin(t^2) dt$$

Answer : _____

Round 1 2 3 4 5

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#5 Calculus - Hustle
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Find the volume obtained by rotating the region enclosed by the graphs of $y = x(5 - x)$ and $y = 8 - x(5 - x)$ about the y -axis.

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#6 Calculus - Hustle
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Evaluate:

$$\int_1^{\sqrt{3}} \frac{dx}{(\arctan x)(1+x^2)}$$

Answer : _____

Round 1 2 3 4 5

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#7 Calculus - Hustle
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Find the area of the region inside the polar graph $r = 2 \cos \theta$, but outside the circle whose polar equation is $r = 1$.

Answer : _____

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#8 Calculus - Hustle
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An electric current, I , in amps, is given by

$$I = \cos(\omega t) + \sqrt{3}\sin(\omega t)$$

where $\omega \neq 0$ is a constant. What is the maximum value, in amps, of I ?

Answer : _____

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#9 Calculus - Hustle
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Find the slope of the tangent line to the plane curve

$$x^3 + 5x^2y + 2y^2 = 4y + 11$$

at (1,2). Express your answer as a common fraction.

Answer : _____

Round 1 2 3 4 5

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#10 Calculus - Hustle
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Find the area between the cubic $y = x^3 - 10x$ and the line $y = 6x$ on the interval $-4 \leq x \leq 4$.

Answer : _____

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#11 Calculus – Hustle
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Evaluate:

$$\int (3x^2 \sin 4x + \ln x) dx$$

Answer : _____

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#12 Calculus – Hustle
MA© National Convention 2013

Find the limit:

$$\lim_{x \rightarrow 0} \frac{e^x - 1 - \ln(1 + x)}{x^2}$$

Answer : _____

Round 1 2 3 4 5

#12 Calculus – Hustle
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#13 Calculus – Hustle
MA© National Convention 2013

A closed box in the shape of a right rectangular prism has a fixed surface area A and a square base with side x . In terms of x and A , what is the maximum volume of the box?

Answer : _____

Round 1 2 3 4 5

#13 Calculus – Hustle
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#14 Calculus – Hustle
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A jet needs to be flying 200 miles per hour in order to take off. If it can accelerate from 0 to 200 miles per hour in 30 seconds, how many miles long must the runway be?

Answer : _____

Round 1 2 3 4 5

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#15 Calculus – Hustle
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Find the limit:

$$\lim_{x \rightarrow 0} \frac{1}{x} \ln \left(\frac{4+x}{4} \right)$$

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#16 Calculus – Hustle
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Find the slope of the line *normal* to the graph of $y = 2\ln(\sec x)$ at $x = \frac{\pi}{4}$.

Answer : _____

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#17 Calculus - Hustle
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A point moves in a straight line so that its distance D at time $t \geq 0$ from a fixed point on the line is $D = 8t - 3t^2$. What is the total distance covered by the point between $t = 1$ and $t = 2$?

Answer : _____

Round 1 2 3 4 5

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#18 Calculus – Hustle
MA[©] National Convention 2013

Let f be the function given by
 $f(x) = x^3 - 6x^2 + p$, where p is an arbitrary constant with respect to x and f . Find the value of p such that the average value of f over the closed-interval $-1 \leq x \leq 2$ is equal to 1.

Answer : _____

Round 1 2 3 4 5

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#19 Calculus - Hustle
MA \odot National Convention 2013

Find $\frac{d^2y}{dx^2}$ for the parametric equations

$$x = e^t + 3 \text{ and } y = e^{2t} + 6e^t + 9.$$

Answer : _____

Round 1 2 3 4 5

#19 Calculus - Hustle
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Answer : _____

Round 1 2 3 4 5

#20 Calculus – Hustle
MA© National Convention 2013

Find the sum:

$$\sum_{n=0}^{\infty} \frac{3^n + 5}{4^n}$$

Answer : _____

Round 1 2 3 4 5

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Find the sum:

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Answer : _____

Round 1 2 3 4 5

#21 Calculus - Hustle
MA© National Convention 2013

Find the particular solution to the differential equation

$$\frac{dP}{dt} = 2P - 2Pt, \text{ satisfying } P = 5 \text{ when } t = 0.$$

Answer : _____

Round 1 2 3 4 5

#21 Calculus - Hustle
MA© National Convention 2013

Find the particular solution to the differential equation

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Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#22 Calculus - Hustle
MA[©] National Convention 2013

Find the x -coordinate of the local minimum for the graph of

$$y = f(x) = x^3 - 9x^2 - 48x + 52.$$

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#23 Calculus - Hustle
MA \odot National Convention 2013

Evaluate:

$$\int \frac{x^3 - 7x^2 + 10x + 1}{x^2 - 7x + 10} dx$$

Answer : _____

Round 1 2 3 4 5

#23 Calculus - Hustle
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Evaluate:

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#24 Calculus - Hustle
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Find the derivative of

$$f(x) = \ln \left(\frac{1 - \cos x}{1 + \cos x} \right)^4$$

Answer : _____

Round 1 2 3 4 5

#24 Calculus - Hustle
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Answer : _____

Round 1 2 3 4 5

#25 Calculus – Hustle
MA© National Convention 2013

Find the limit:

$$\lim_{x \rightarrow 1} \frac{x^x - x}{1 - x + \ln x}$$

Answer : _____

Round 1 2 3 4 5

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