CONCORDIA

Exam MATH 203 G 2204

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Questions attempted: 0/10

Information	
Unsure	Time: 75 min \pm 10 min added for visual registration of pages. (You will have 30 minutes for uploading the pages that you have registered after finishing your attempt).
1 of 10	Solve for $x: 8^2 4^{2r} = 2^{x^2}$. $2 \cdot 2 = 2 \times 2 = 2 \times 2 = 2 \times 4 \times 4$
Unsure	I have answered this question. $D_{S} = R_{S^{-1}} : (-\infty, +\infty) \qquad Y = log_{3}(9+3^{\times}) = 9+3^{\times} = 3^{\times} $ Notes O $R_{S} = D_{S}^{-1} : (2, +\infty) \qquad 3^{\times} = 3^{\times} - 9 \Rightarrow \times = log_{3}(3^{\times} - 9) = S(x)$ Notes O
2 of 10	Find the inverse $f^{-1}(x)$ of the function $f(x) = \log_3(9 - 3^x)$. Determine the domain and the range of $f(x)$ and of $f^{-1}(x)$. $3 \times = 3^1 - 9 \Rightarrow X = \log_3(3^x - 9) \Rightarrow X = \log_3(3^x $
	Please answer this question on paper. You will upload your photos after having finished and submitted the online part of the exam.
Unsure	↑ I have answered this question.
3 of 10	Find all (a) horizontal and (b) vertical asymptotes of the graph of $ \sqrt{As}; X=0, X=-2 \qquad \frac{(x-2)\sqrt{4+16x^2+9x^6}}{(x^2+2x)(x^2-4)} = \frac{\sqrt{4+6x^2qx^6}}{\chi(x+2)^2} \Rightarrow \pm 3 \text{ at } \pm \infty $
	Please answer this question on paper. You will upload your photos after having finished and submitted the online part of the exam. $y = -3$ $\alpha + -\infty$.
Unsure	I have answered this question.

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4 of 10	Find the limit. If the limit does not exist explain v/hy. $\lim_{t \to 0} \left(\frac{1}{t\sqrt{1+2t^2}} - \frac{1}{t} \right) = \lim_{t \to 0} \frac{1 - \sqrt{1+2t^2}}{t\sqrt{1+2t^2}} = \lim_{t \to 0} \frac{-2}{t\sqrt{1+2t^2}}$	Marks = +2t ² (1+\1+2t
	Please answer this question on paper. You will upload your photos after having finished and submitted the online part of the exam.	
Unsure	∴ I have answered this question.	Notes ()
5 ₀ °10	(4+3 marks) Consider the piecewise function $f(x)$ with parameters a and b : $f(x) = \begin{cases} ax + 2b & \text{if } x \le 0 \\ x^2 + 3ax - b & \text{if } 0 < x \le 1 \end{cases} 1 + 3a = -2 \implies a = -2$ A. Find the values of a and b that make $f(x)$ continuous everywhere. B. In that case, will the function $f(x)$ also be differentiable at $x = 0$? $f(x) = \begin{cases} -x & x \le 0 \\ -x & 3x < 0 < x \le 1 \end{cases} (-x) = \begin{cases} -x & x \le 0 \\ -x & 3x < 0 < x \le 1 \end{cases}$ Explain why yes or why not. $f(x) = \begin{cases} -x & x \le 0 \\ -x & 3x < 0 < x \le 1 \end{cases} (-x) = \begin{cases} -x & x \le 0 \\ -x & 3x < 0 < x \le 1 \end{cases}$ Please answer this question on paper. You will, upliced your photos after having finished and, submitted the online part of the exam.	1 2x-3 2x-3 2x-3 = 2x+3 = x=0
Unsure	;. I have answered this question.	Notes (
6 of 10	Find the derivative of the function: (you have to show at least one intermediate step of your calculations) $f(x) = \frac{x^3 + \tan(2x)}{\tan(2x) + x^3} + c^2 x^{1/2} = 1 + e^{7x}$	Marks
∐ tUnsure	Here answer this question on paper. You will uploadly our photos after having finished and submitted the soldine part of the exam. $ f^1 = \frac{e^2}{2\sqrt{\chi^2}} $	Notes 🔘

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Finish attempt ...

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Marks **7** of 10 (you have to show at least one intermediate step of your calculations) $f(x) = \sin\left[x e^{2x} + \cos(x + e^{2x})\right]$ Please answer this question on paper. You will upload your photos after having finished and submitted the online part of the exam. $S' = \cos(xe^{2x} + \cos(xte^{2x})) \cdot [e^{2x} + zxe^{2x} - \sin(xte^{2x}) \cdot [t+2e^{2x}]$ Unsure Mark $y' = b^2 e^{bx} + 2$ $f'(0) = b^2 + 2$ Please answer this question on pager. You will upload your photos after having finished and submitted the online part of the exam Unsure a. Calculate f'(x) using its definition as a limit of difference quotient.

- b. Write the equation of the tangent line to y=f(x) at the point (2,3).

nswer this question on paper. You will upload your photos after having finished and sub

Unsure

$$f'(z) = \frac{1}{3} \Rightarrow y_t = 3 + \frac{1}{3}(x-z) = \frac{x}{3} + \frac{7}{3}$$

1/2