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25 questions

The following questions are a suggested list of practice problems to prepare for your test. These questions are not guaranteed to be a complete preparation for the exam, but they can serve as a starting point. You should also refer to your past exams, homework and extra worksheets provided by your professor.

On the Final Exam there will be 20 Multiple Choice Questions (60% of grade) which will be graded based on scantron results with NO PARTIAL CREDIT possible. There will be 5 Free Response Questions (40% of grade) where partial credit MAY BE awarded if you fully support your answers using Calculus techniques taught in class. SHORT CUTS will not be accepted as supporting work, but should be used to check your answers only. Practice showing work in an organized, legible manner.

- 1) Find the general derivative of $f(x) = x^2 + 2$ using the limit definition. Leave the derivative in terms of x . Then find the equation of the tangent line to the curve $y = x^2 + 2$ at the point $(1, 3)$.

- 2) Find the limit, if it exists.

a) $\lim_{x \rightarrow 3} \frac{x^2 - 2x - 3}{x^2 - 5x + 6}$

b) $\lim_{x \rightarrow 0} \frac{e^{2x} - 1}{x}$

c) $\lim_{t \rightarrow \infty} t^4 e^{-t} = 0$

d) $\lim_{x \rightarrow \infty} \frac{3x^2 - 4x + 2}{3x^2 - 1} = 1$

e) $\lim_{x \rightarrow \infty} \frac{-4x + 1}{3x^2 - 2} = 0$

f) $\lim_{x \rightarrow \infty} \frac{\ln x}{x^2} = 0$

g) $\lim_{t \rightarrow 0} \frac{\sin t^2}{t} = 0$

h) $\lim_{x \rightarrow \infty} \frac{5x^2 - 2x - 3}{x^2 - 4} = 5$

i) $\lim_{\theta \rightarrow 0} \frac{\sin(3\theta)}{2\theta} = \frac{3}{2}$

- 3) Find the derivative.

a) $y = 10x^{\frac{1}{2}} - 4 \ln x - \frac{1}{x} + 3e^x - 1$

b) $y = \ln(\cos(2t))$

c) $y = x^2 \ln x$

d) $y = x^3 e^{-x}$

e) $y = \sin^3(3t - \pi)$

f) $f(x) = \frac{e^{2x}}{\sqrt{3x^2}}$

g) $y = \sqrt{10x^4 - 7x}$

h) $y = \left(\frac{x-1}{x+1}\right)^{-4}$

- 4) Find the antiderivative of the following functions:

a) $h(\theta) = \sec^2(5\theta)$

b) $f(x) = e^{\frac{1}{2}x}$

c) $g(x) = \sec(5x) \tan(5x)$

d) $f(x) = \frac{1}{x^2 - 4}$

- 5) Integrate the following functions:

a) $\int \left(\frac{x^2}{2} + \frac{1}{\sqrt{x}}\right) dx$

b) $\int \frac{3x^2}{x^2 - 2} dx$

c) $\int x\sqrt{x^2 - 4} dx$

d) $\int \frac{x}{x^2 - 5x + 6} dx$

e) $\int \tan x dx$

f) $\int \sec x dx$

g) $\int x\sqrt{x-4} dx$

h) $\int x \sin(3x^2) dx$

i) $\int \frac{1}{x^2 - 4} dx$

- 6) Use implicit differentiation to find $\frac{dy}{dx}$.

a) $4y + x^2 \sqrt{xy} = 3x$

- 7) Find the derivatives.

a) $\frac{d}{dx} \int_0^x \sin t dt$

b) $\frac{d}{dx} (-\cos t)$

c) $\frac{d}{dx} (\cos x^2 - \cos x)$

d) $\frac{d}{dx} (-\cos x^2 + 1)$

e) $\frac{d}{dx} (3x^2 \sin x^2)$

f) $y = \cos(xy) = x$

g) $\frac{d}{dx} \int_0^{\sin x} \frac{1}{4-u^2} du$

h) $\frac{d}{dx} \frac{\cos 4}{40 - 24x^2}$

Answer Key For Final Exam Practice Problems

B Lingard



Answer Key For Final Exam Practice Problems:

Answer Key For Final Exam Practice Problems Book Review: Unveiling the Power of Words

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