

GROUP QUIZ 9 QUESTIONS

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- [1] Graph using the full procedure discussed in class. Identify the domain, discontinuities (including type), intercepts, asymptotes, local extrema, inflection points, vertical and horizontal tangent lines.

[a] $f(x) = \frac{x+4}{\sqrt[3]{x}}$

[b] $f(x) = x^4 e^{-2x}$

- [2] Evaluate the limit.

[a] $\lim_{x \rightarrow \infty} \left(1 + 2 \sin \frac{3}{x}\right)^x$

[b] $\lim_{x \rightarrow 0} (1 + 5x + 4x^2)^{\csc x}$

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