

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Find $\lim_{x \rightarrow 0} \left(\frac{\sqrt{4+x^2} - \sqrt{4-x^2}}{x^2} \right)$

Exercise 2 (5 points)

Find $\lim_{x \rightarrow \pi} (x - \pi) \csc(x)$

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Exercise 1 (5 points)

Find $\lim_{x \rightarrow 4} \left(\frac{\sqrt{9 + x^2} - 5}{x - 4} \right)$

Exercise 2 (5 points)

Find $\lim_{x \rightarrow 0} \frac{\tan^2(3x)}{x^2}$

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Exercise 1 (5 points)

Find $\lim_{x \rightarrow 1} \left(\frac{x-1}{\sqrt{x^2+3}-2} \right)$

Exercise 1 (5 points)

$\lim_{x \rightarrow 0} x^3 \cot^3(2x)$