

NAME: \_\_\_\_\_ ID: \_\_\_\_\_ Section: \_\_\_\_\_

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**Exercise 1** (5 points)

Find  $\lim_{x \rightarrow 0} \left( \frac{\sqrt{9+x} - \sqrt{9-x}}{x} \right)$

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**Exercise 2** (5 points)

Find  $\lim_{x \rightarrow 2} (x-2)e^{\sin(\frac{1}{x-2})}$

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**Exercise 1** (5 points)

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

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**Exercise 2** (5 points)

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