

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

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**Exercise 1** (5 points) Evaluate

$$\lim_{x \rightarrow 1} \frac{\sqrt{3+x} - \sqrt{5-x}}{x-1}$$

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**Exercise 2** (5 points) Evaluate

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

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

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**Exercise 1** (5 points) Evaluate

$$\lim_{x \rightarrow 2} \frac{\sqrt{14+x} - 4}{x - 2}$$

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**Exercise 2** (5 points) Evaluate

$$\lim_{x \rightarrow 0} \frac{\sin(5x) \cos(x)}{3xe^x}$$