Math 105 October 2, 2009

Name: _____

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$$f(x) = \begin{cases} 3 - \frac{x^2}{2} & \text{if } x < 2 \\ 3x - 5 & \text{if } x \geq 2 \end{cases}$$

and evaluate

$$\lim_{x \to 0} f(x)$$

or explain why the limit does not exist.

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