

LAST NAME:

FIRST NAME:

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**Math 65B - Summer 2016**

Quiz 4: Thursday June 16, 2016

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1. (1 point) A force of 10 lb. is required to hold a spring stretched to 4 in. beyond its natural length. How much work is done in stretching it from its natural length to 6 in beyond its natural length? (*Hint:* Be careful with units)

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Please, show all work.

2. (1 point) Compute the following limit:

$$\lim_{x \rightarrow \infty} \left(1 + \frac{2}{x}\right)^x$$

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Please, show all work.