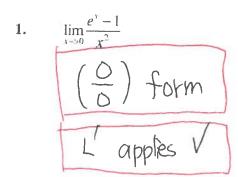


Calculus 1432 Quiz 11 April 4, 2014

1 points each

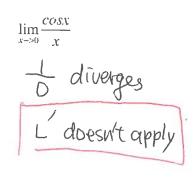
For each of the following, determine if L'Hopital's rule applies and if it does, write the indeterminate form.



2.
$$\lim_{x\to 0+} (1+x)^{1/x}$$

$$1^{M} - \text{form}$$

$$L' \text{applies}$$



For each of the following, determine if the integral is improper. Give a reason for your answer.

at
$$X=2$$
. $\frac{1}{X-2}$ is undefined. at $X=3$, $\frac{1}{X-3}$ is undefined. It's an integration on an unbounded interval $X=3$ increases $X=3$ in

For each of the below, state whether it is a sequence or a series. If a sequence, determine whether it converges or diverges. If a series, write the first 2 terms.

7.
$$\sum_{n=2}^{\infty} \frac{3n^2 - 1}{10n + 5n^2}$$
8.
$$\frac{e^n}{n} = 0$$
Series

1.
$$\sum_{n=1}^{\infty} \frac{1}{10n + 5n^2}$$
9.
$$\sum_{n=1}^{\infty} \frac{1}{n}$$
Series

1.
$$\sum_{n=1}^{\infty} \frac{1}{n}$$
Series

1.
$$\sum_{n=1}^{\infty} \frac{1}{n}$$
2.
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$$\sum_{n=1}^{\infty} \frac{1}{n}$$
4.