# Math 103, Fall 2014 <br> Week 11 

Check Homework Problems

1. You should apply L'Hospital's rule four times, and end up with 0 .
2. You should apply L'Hospital's rule twice, and after the second time you should end up with $\lim _{x \rightarrow 0^{+}} 2 x$.
3. The answer should be the same as the previous one.
4. You should get $e$.
5. You should get 1 .
6. You should get that $x=15$. (This problem is $a$ lot easier if make good choices about the algebra.)
7. At the optimal dimensions, there should be 30 extra feet extending the barn.
8. The dog should jump in when $5 / \sqrt{3}$ meters away from the professor
9. When using the minimum amount of material, you'll use 368.97 square feet of material.
