

Math 429, Quiz 6.

Your name:

1. (19.9.) Let  $X, Y$  be topological spaces.  
Prove that  $\text{Cl}(A \times B) = \text{Cl}A \times \text{Cl}B$  for any  $A \subset X$  and  $B \subset Y$ .

2. (19.30.) Let  $f : \mathbb{R} \rightarrow \mathbb{R}$  be a continuous function.  
Prove that its graph forms a closed subset of  $\mathbb{R} \times \mathbb{R}$ .