Recall that in class we proved

Theorem A. If n is a composite integer, then n has a factor less than or equal to $\sqrt{n}$.

and

Theorem B. Every integer is divisible by at least one prime.

<u>Problem 1.</u> Use these to prove the following.

Corollary. If n is a composite integer, then n has at least one prime factor less than or equal to $\sqrt{n}$.

<u>Problem 2.</u> Use the corollary to determine whether 127 is a prime number or not. Explaine your reasoning.