## Answer \#251

The answer is (b): the intensity of the light bulb will be less. In fact, the bulb will go out, as seen in the photograph at the right below.


The waves from the transmitting antenna are polarized in the horizontal direction - the orientation of the antenna. A receiving antenna perpendicular to the receiving antenna will only send or receive vertically polarized waves, so the light will go out.

## Archive 13

## Question of the Week

## Outreach Index Page

Lecture-Demonstration Home Page


For questions and comments regarding the Question of the Week contact Dr. Richard E. Berg by e-mail or using phone number or regular mail address given on the Lecture-Demonstration Home Page.

