3) In a boutique store with only fluorescent lighting, a customer insists on taking dresses into the daylight at the doorway to check their color. Is she being reasonable? Explain.

4) Why will the leaves of a red rose be heated more than the petals when illuminated with red light? What does this have to do with people in the hot desert wearing white clothes?

9) What is the unusual color of common tennis balls, and why?

18) What colors of ink do color ink-jet printers use to produce a full range of colors? Do the colors form by color addition or by color subtraction?

27) Check Figure 27.9 to see if the following three statements are accurate. Then fill in the last statement. (All colors are combined by the addition of light.)

- Red + green + blue = white.
- Red + green = yellow = white – blue.
- Red + blue = magenta = white – green.
- Green + blue = cyan = white – ________.

31) Why can't we see stars in the daytime?

35) What is the color of the setting Sun as seen on the Moon?

45) Why is the foam of root beer white, while the beverage is dark brown?

49) Red sunrises occur for the same reasons as red sunsets. But sunsets are usually more colorful than sunrises – especially near cities. What is your explanation?