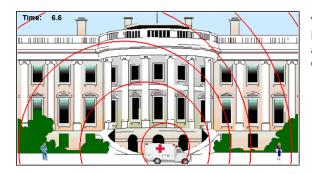
Worksheet for Exploration 18.5: An Ambulance Drives by with its Siren On



When the ambulance is moving (position is given in meters and time is given in seconds) use the animation to guide your answers to the following questions.

- a. How does the wavelength of the sound wave change in relation to the woman at the right?
 - λ increases decreases same
- b. How does the frequency of the sound wave change in relation to the woman at the right?
 - f increases decreases same
- c. How does the wavelength of the sound wave change in relation to the man at the left?
 - λ increases decreases same
- d. How does the frequency of the sound wave change in relation to the man at the left?
 - f increases decreases same
- e. How does the wavelength of the sound wave change in relation to the patient in the ambulance?
 - λ increases decreases same
- f. How does the frequency of the sound wave change in relation to the patient in the ambulance?
 - f increases decreases same