



PHYSLETS ANSWER SHEET

WS3A2

Waves / Set 3 / Animation 2

Name \_\_\_\_\_ Class \_\_\_\_\_

<Show all work on calculations. Include proper units. Explanations require complete sentences.>

1) Determine the speed of the waves.

2) Set the animation so that the speed is at its maximum value and choose *classical*. If the source represents an object that is producing light waves, explain what is unrealistic about the model.

3) The distance between wave crests represents the wavelength and the number of crests that pass a fixed point in a fixed amount of time represents the frequency. Notice that the shade of the wave crests become lighter the farther the wave travel from the source. What part of the wave does this shading represent? (What decreases as one travels away from the source?)