

Chapter 20

Doppler Effect

20.1 (a) the car, moving, (b) you, stationary

20.2 65 Hz (1065 Hz vs. 1000 Hz)

20.3 (a) 1065 Hz, (b) 1070 Hz, (c) the horn frequency heard by the police officer, (d) 935 Hz, (e) 939 Hz, (e) the siren as heard by the driver of the car

20.4 (a) yes, (b) 2000 Hz, Infinity, horn frequency heard by the police officer,

20.5 (a) 1065 Hz, (b) 1070 Hz, (c) the horn frequency heard by the police officer, 0, 500 Hz, the siren as heard by the driver of the car

20.6 1029 Hz