

Assignment Decibel Scale and Doppler Effect

Due: June 3, 2020

Total: /10

Name:

1. a) What is the decibel level of a sound intensity of $3.45 \times 10^{-5} \text{ W/m}^2$?
b) What is the intensity level of a 105 dB sound? [5 marks]

2. A police car is travelling at a speed of 80 km/h sounding it's 450 Hz siren. If the temperature is 25°C , what is the apparent frequency you hear
 - a. as the police car approaches?
 - b. as the police car departs? [5 marks]

