

a) $f = 28 \text{ Hz}$
 $v = 343 \text{ m/s}$

$$v = f \cdot \lambda \text{ so}$$

$$343 \text{ m/s} = (28 \text{ Hz}) \cdot \lambda$$

$$\lambda = 12.25 \text{ m}$$

b) $f = 4200 \text{ Hz}$

$$343 \text{ m/s} = (4200 \text{ Hz}) \cdot \lambda$$

$$\lambda = .082 \text{ m}$$