

Class 9-16 - 50, 52, 57

50 $\frac{S}{30 \text{ m/s}}$ 352 Hz $\frac{L}{18 \text{ m}}$ $= 352 \left(\frac{344 + 18}{344 - 30} \right) = 406 \text{ Hz}$

$\rightarrow \rightarrow 352 \left(\frac{344 - 18}{344 - 30} \right) = 365 \text{ Hz}$

52 \rightarrow beat = 6 \Rightarrow hrs freq = 266 : $266 = 260 \frac{344}{344 - v}$

$1 - \frac{v}{344} = \frac{260}{266}$



$x = \frac{1250}{\tan \alpha} = 1.719 \times 10^3 \text{ m}$

shock moves @ speed of plane = $\epsilon = \frac{x}{v} = \frac{1.719 \times 10^3}{1.7317} = 2.945$

value @ min - add 3 waves \Rightarrow 26