

$$v = \frac{\text{avstand}}{\text{tid}} = \frac{\lambda}{T}$$

Ekse: EM-bølger

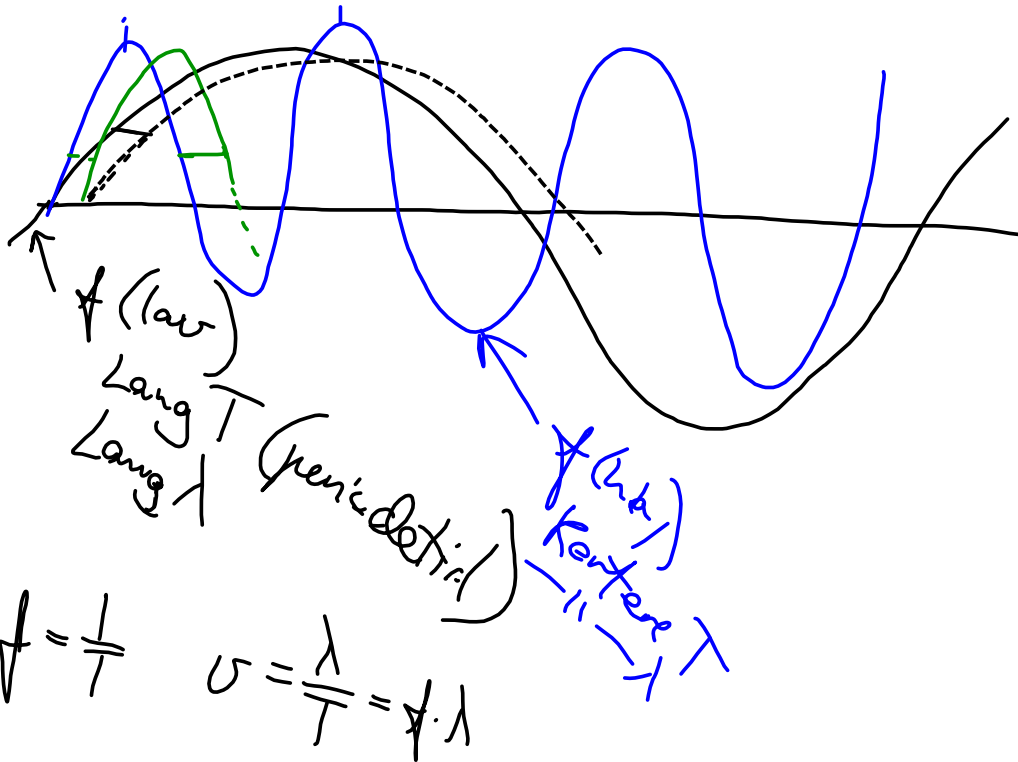
$$v = c$$

↑  
lyshastighet

$$c = \frac{\lambda}{T} = 3,0 \cdot 10^8 \text{ m/s}$$

frekvens  $f = \frac{1}{T}$

← periode tid

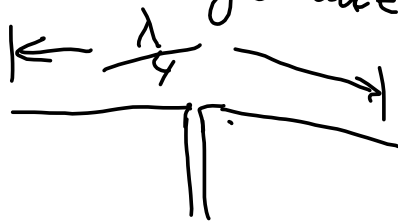


Eks: EM

$c = f \cdot \lambda$   
 $f = 100 \text{ MHz} \leftarrow \text{radiosignal}$   
 $\lambda = \frac{3,0 \cdot 10^8 \left[ \frac{\text{m}}{\text{s}} \right]}{100 \cdot 10^6 \left[ \frac{1}{\text{s}} \right]} = 3,0 \text{ m}$

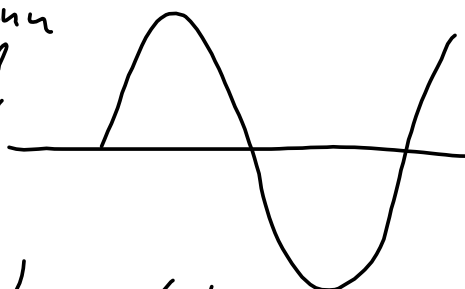
$[Hz] = \left[ \frac{1}{s} \right]$

Antenne (for å ta inn radiosignaler)  
 Kvart-bølge antenne



Tvers bølger :

Vann  
EM  
Lys



Langs bølger



Lyd

