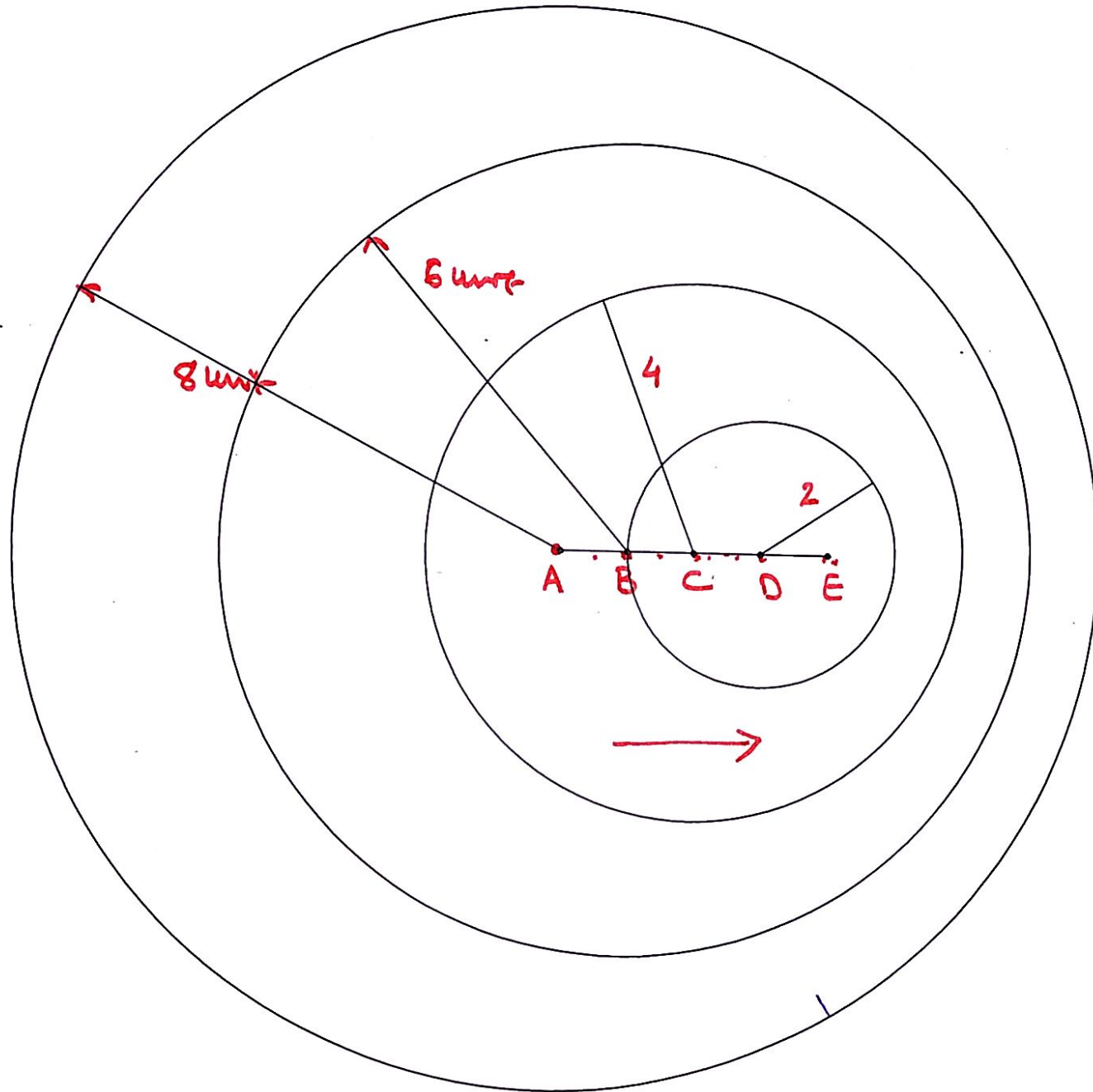


$$M < 1$$

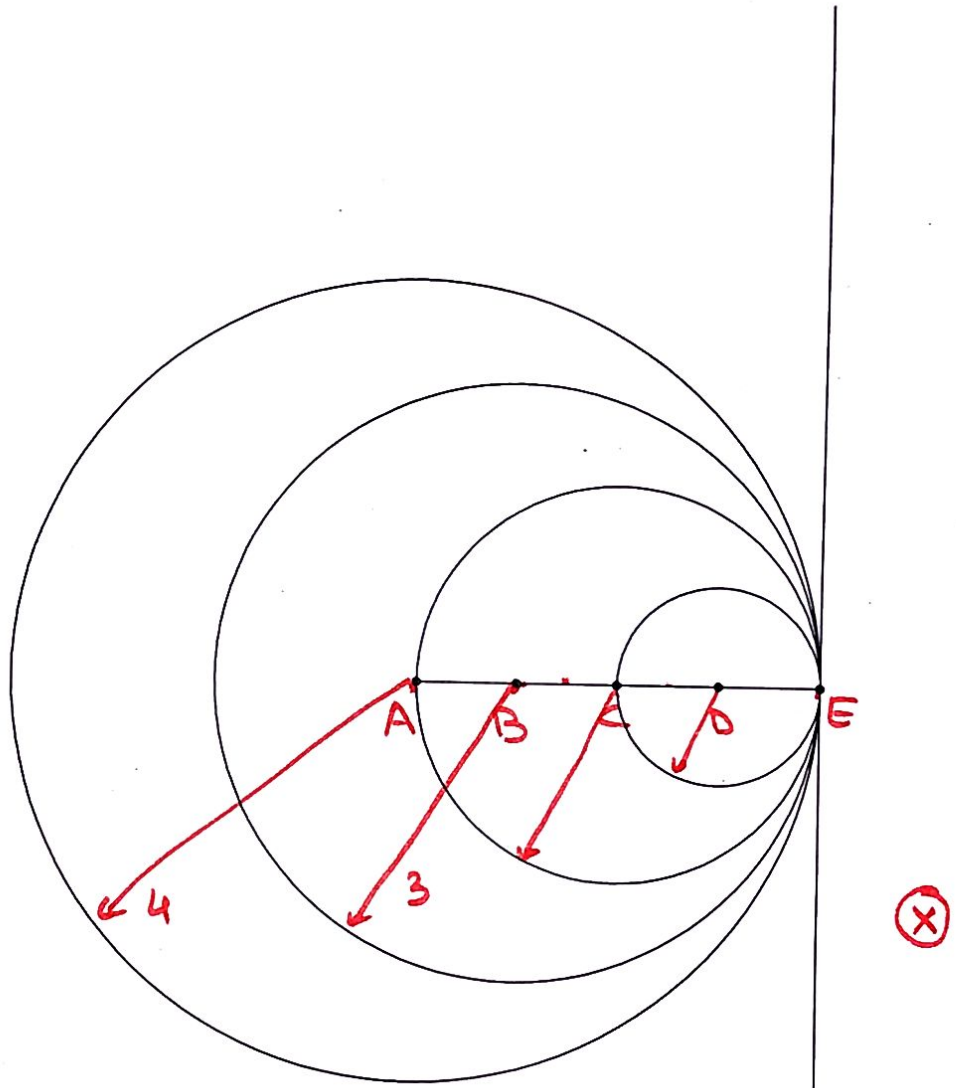
$$M = \frac{1}{2}$$

$$V = 1$$

$$C = 2$$



$M=1$   
 $V=C$



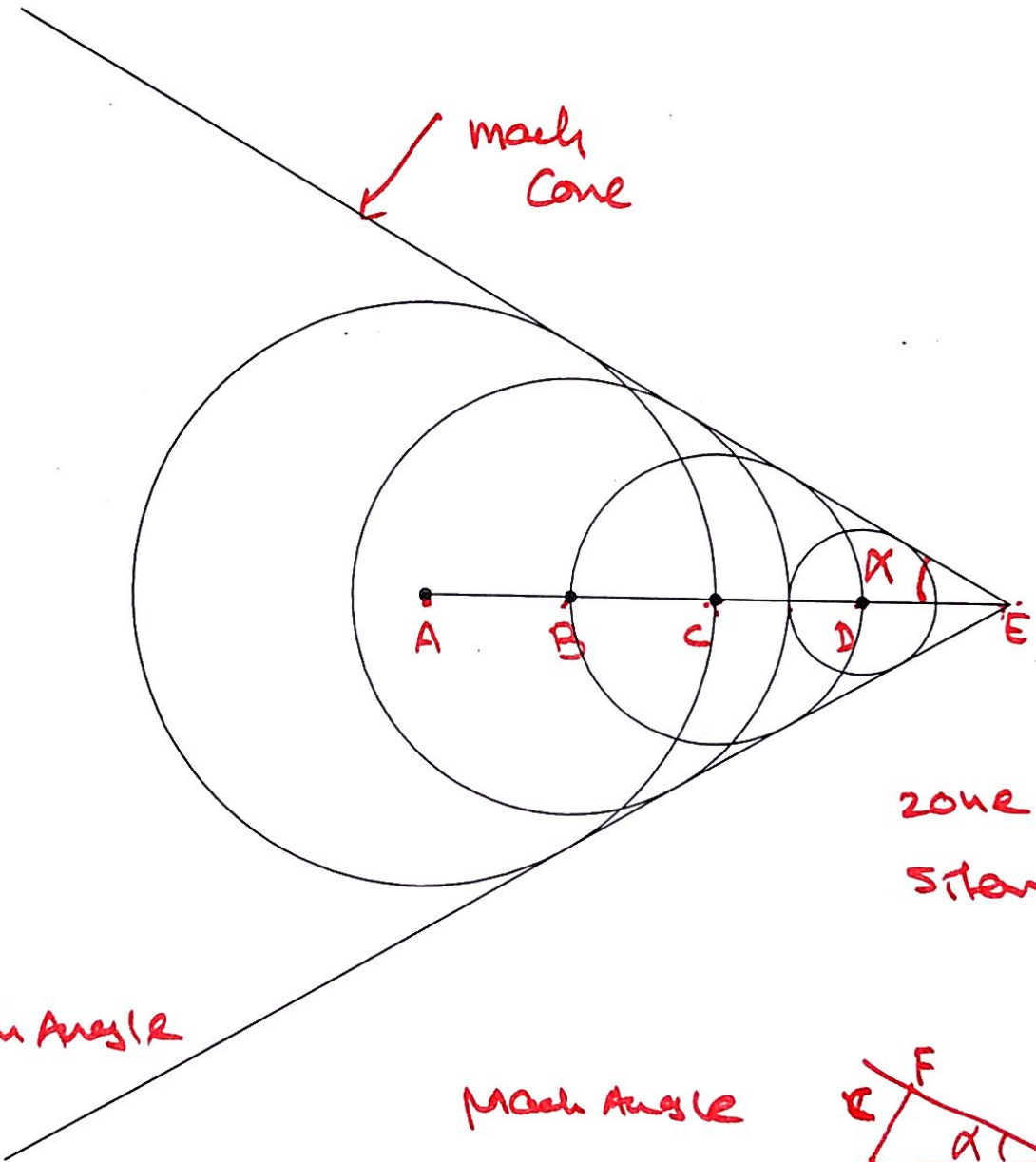
Zone of  
Action

(X)

Zone of  
Sistance

$M > 1$   
 $\sqrt{7}C$   
 $M = 2$

zone  
 center.

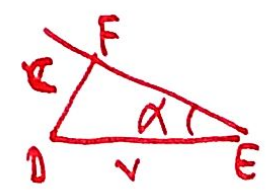


zone  
 surface

$\alpha = \text{Mach Angle}$

Mach Angle

$$\sin \alpha = \frac{c}{v} = \frac{1}{M}$$



$$\alpha = \sin^{-1}(1/M)$$