

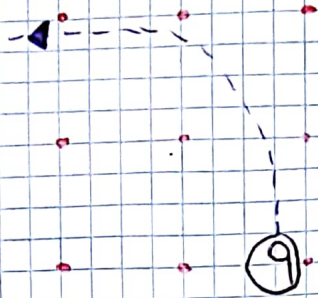
N 15 P 788

$$9,6 \text{ km} = R$$

$$v = 14 \text{ m/s}$$

$$|8,2 \text{ mC}|$$

$$B = |0,48 \text{ T}|$$



$$q \cdot m = ?$$

$$R = \frac{mv}{qB} \rightarrow \frac{R}{m} = \frac{v}{qB} \rightarrow \frac{1}{m} = \frac{v}{qBR} \rightarrow m = \frac{qBR}{v}$$

$$m = \frac{8,2 \cdot 10^{-9} \text{ C} \cdot 0,48 \text{ T} \cdot 9,6 \text{ km}}{14 \text{ m/s}} = 2,699 \cdot 10^{-6} \text{ kg}$$

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$$M_m = 3,06 \cdot 10^{-25} \text{ kg}$$

$$v = 7,2 \cdot 10^3 \text{ m/s} \rightarrow 2000 \text{ km/h}$$

$$R = 0,1 \text{ m}$$

$$q = 1,60 \cdot 10^{-19}$$

$$R = \frac{mv}{qB} \rightarrow BR = \frac{mv}{q} \rightarrow B = \frac{mv}{qR}$$

$$B = \frac{3,06 \cdot 10^{-25} \text{ kg} \cdot 2000 \text{ km/h}}{1,60 \cdot 10^{-19} \cdot 0,1 \text{ m}} = 0,16 \text{ T}$$