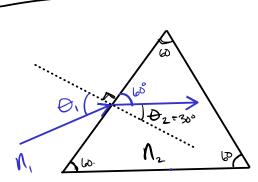
Week 9

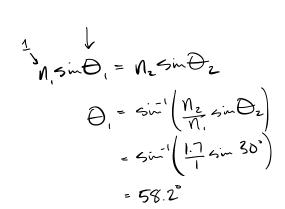
B John paper

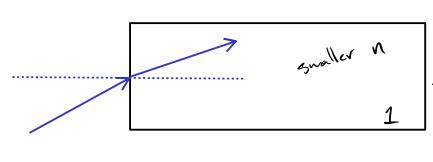
F = qvB sw0 - or-F = IIB sin0

Week 12 m>1 enlarged MK1 diminished M>11 enlarged and upright m < - 1 enlarged and inverted imaginiq>0 real image q < 0 virtual image Livrajna lens > virtual, upright, diminished if f>0 -> converging lens p = 20cm f20 -> Liverging virtual image q=-50cm  $\frac{1}{\rho}$   $4\frac{1}{q} = \frac{1}{f}$  $f = \frac{1}{1 + \frac{1}{50}}$ f=+12  $\frac{1}{\rho} + \frac{1}{q} = \frac{1}{f}$ 9>0 & invited  $\frac{1}{\rho} + \frac{1}{2\rho} = \frac{1}{12}$ p = ? solve for p M = -2 = -9h = 6 cm h = 3cm

Weck 13







which meterial is the spiral of light higher?



Q: what is the image distance

$$M = \frac{h'}{h} = 5 = -\frac{9}{9}$$

butter question: what is the food length?
$$\frac{1}{p} + \frac{1}{q} = f$$

$$f = \frac{1}{10} + \frac{1}{-50} = 12.5 \text{ cm}$$

from lower n to higher n so us intical augh critical angle from higher to lower: Misind, = Misinde suggest to Oc = SN (1.15) - = 55.2°