


213 lecture 8 fall 2021



213 Lecture 8

9/10/21

→ Quiz 2

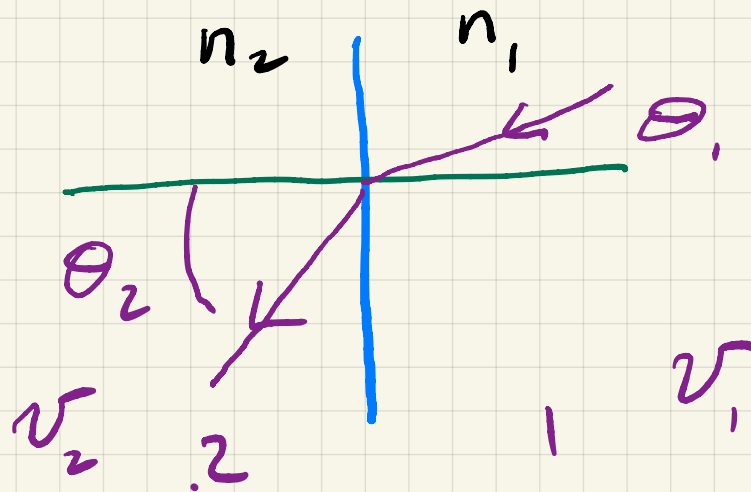
→ HW 1 due today

→ Lab ?

→ Lectures

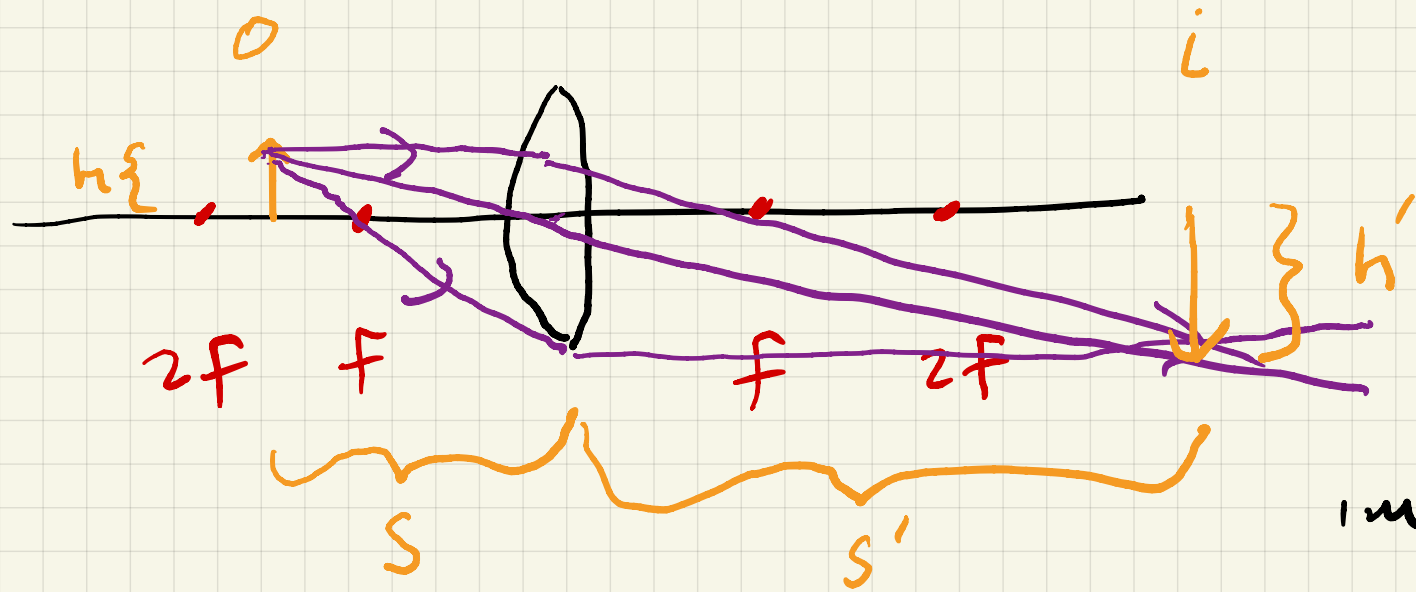
Today: who knows \Rightarrow refraction
ray tracing for thin lenses

$$n = \frac{c}{v}$$



$$v_2 > v_1 \\ \Rightarrow n_2 < n_1$$

Ray tracing for thin converging lenses



$$M = \frac{h'}{h} = -\frac{s'}{s}$$

image
is: real
magnified
($M > 1$)
& inverted

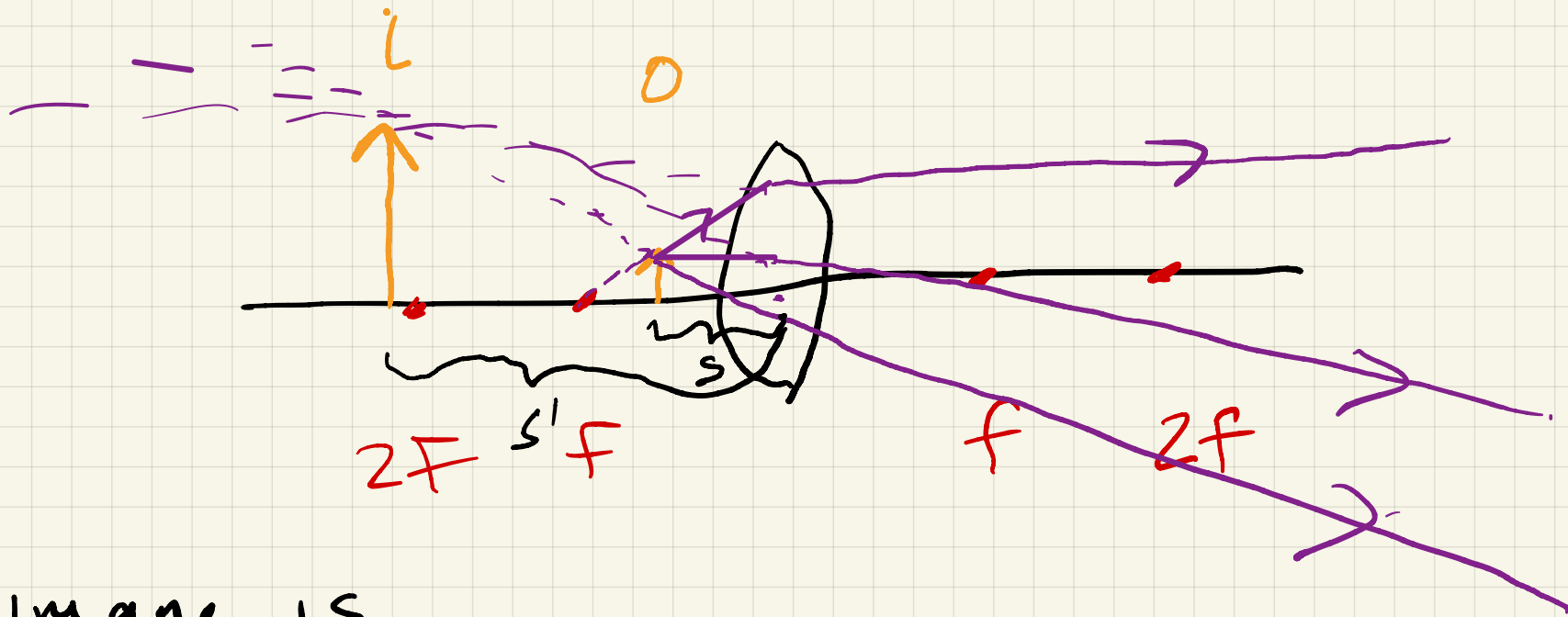
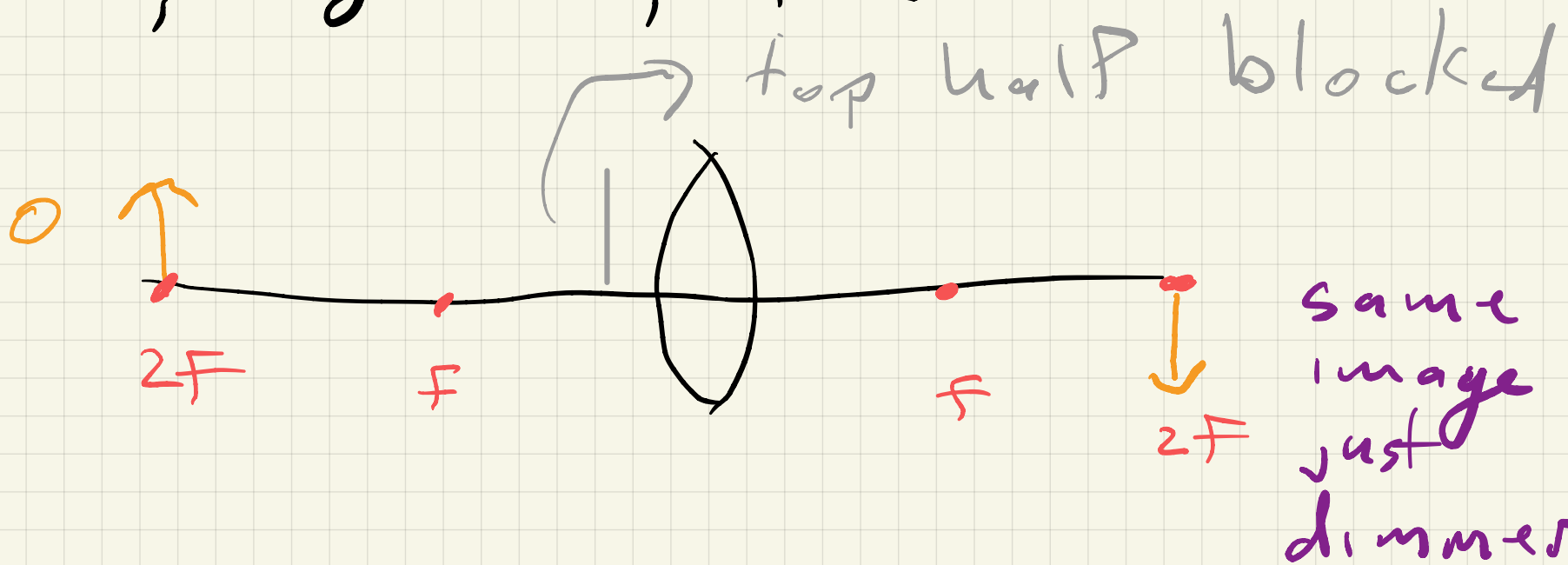
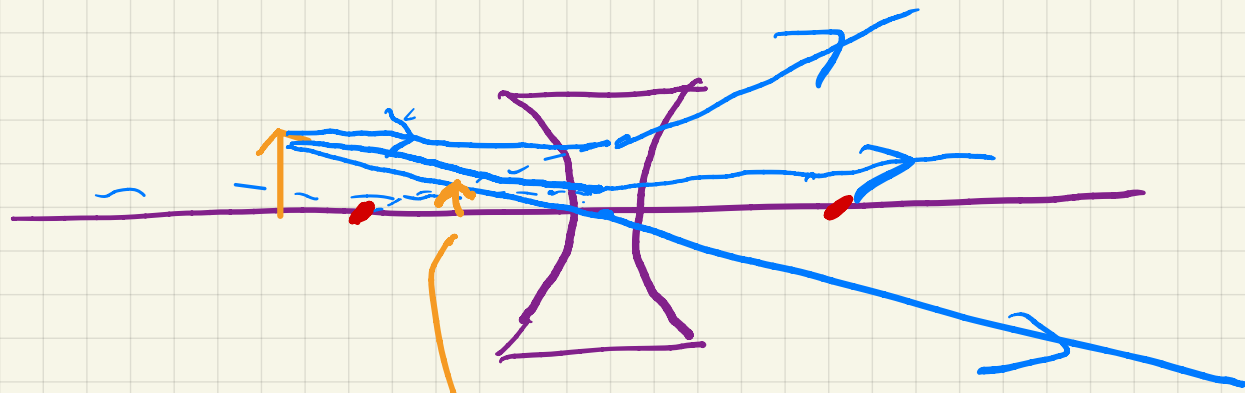


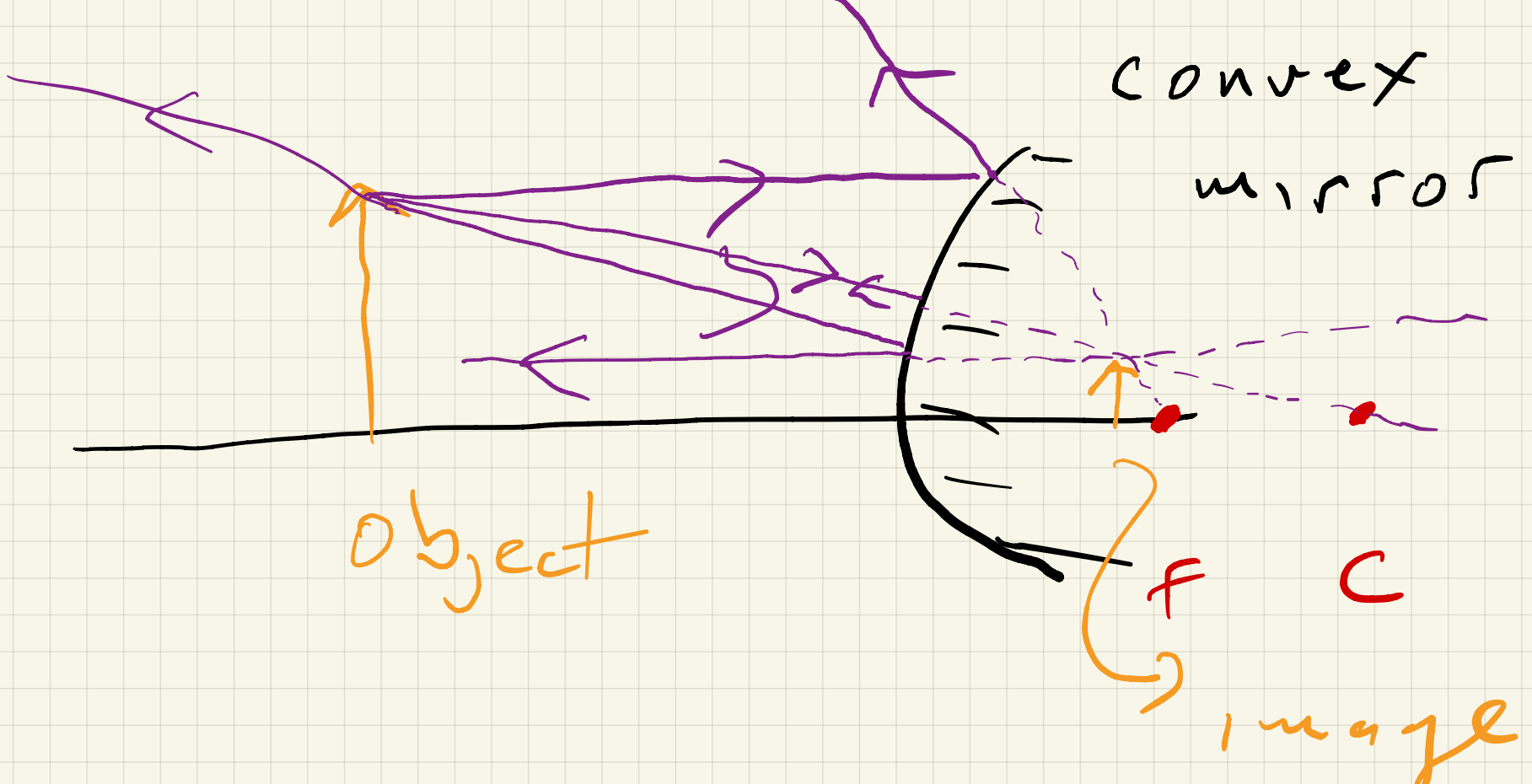
Image is
virtual, magnified, upright



① diverging lens



F
i
F
virtual
diminished
upright



convex
mirror

object

F

C

image

virtual,
diminished
upright

