

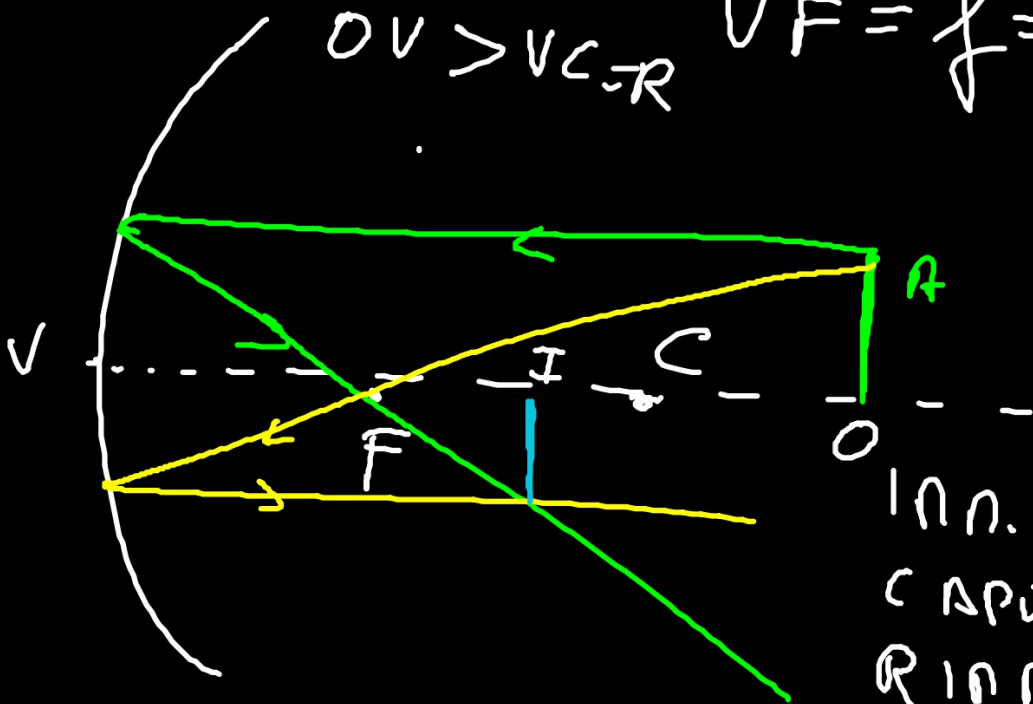
FORMAZIONE DELLE

IMMAGINI PER

SPECCHI CURVI

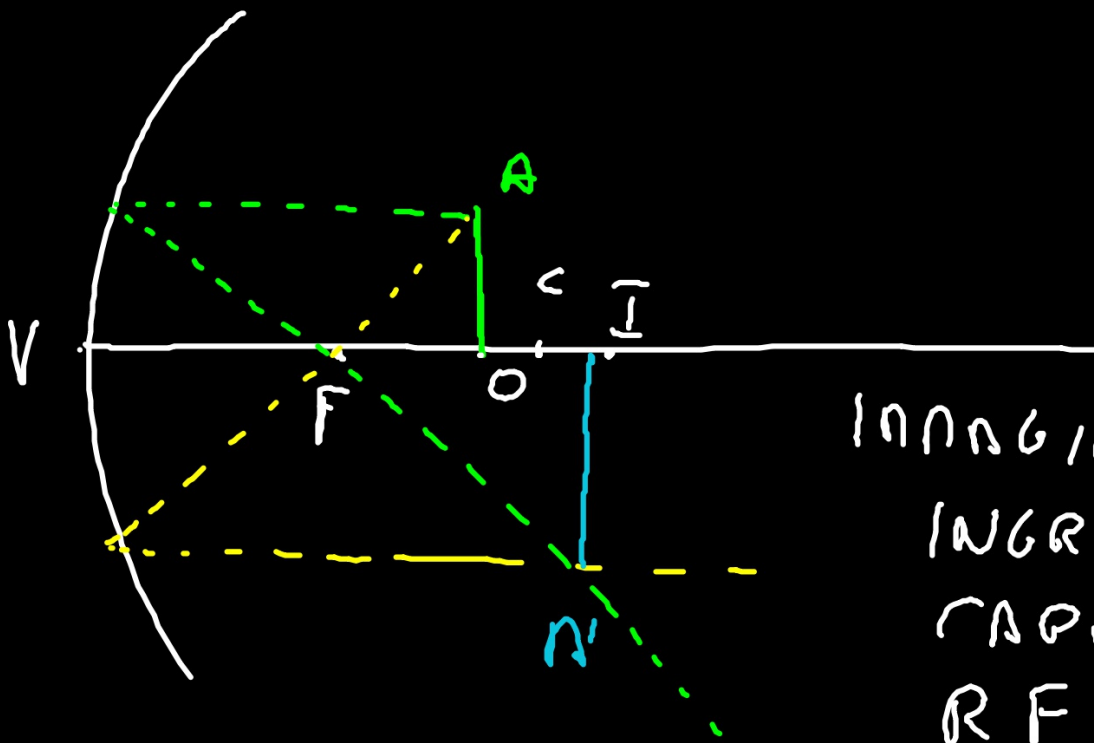
SP. SFERICO CONCAVO

$$\bar{O}V > VC = R \quad VF = f = R/2$$



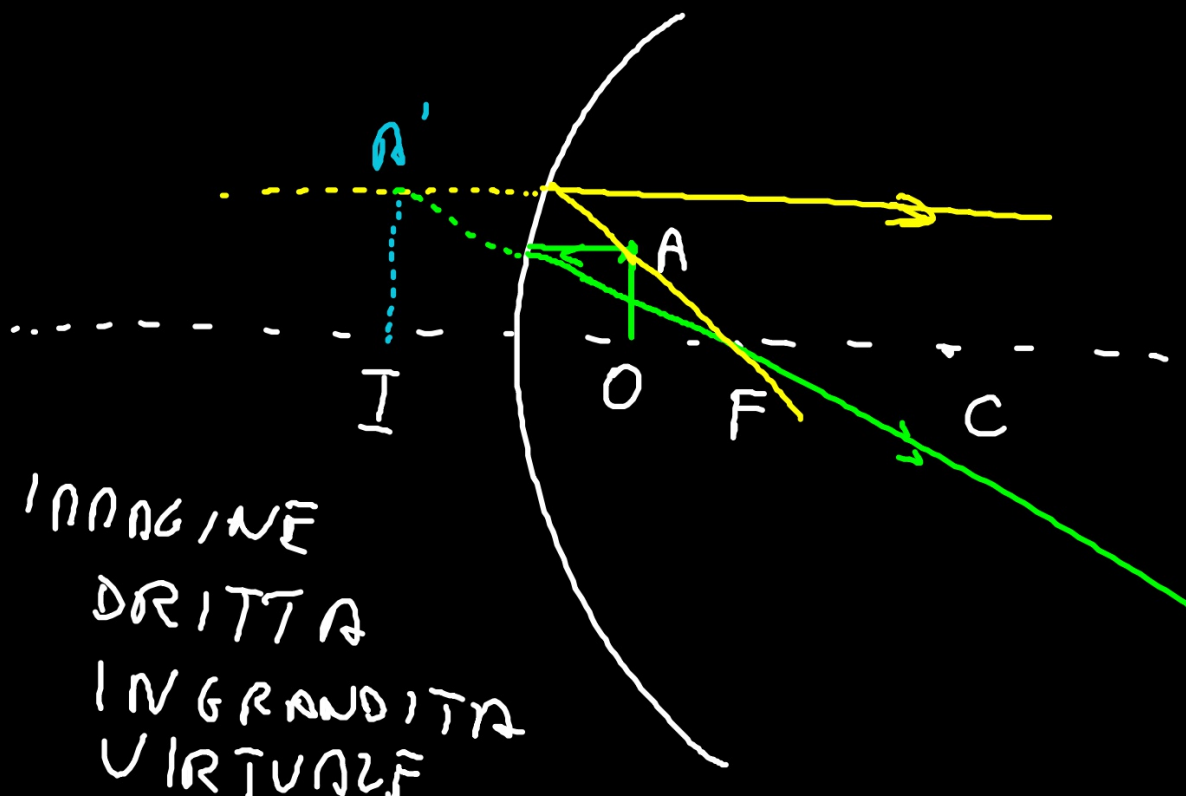
1 n.n.
CAPACITÀ
RIPICC.
REALE

$$j < 0 < V < R$$



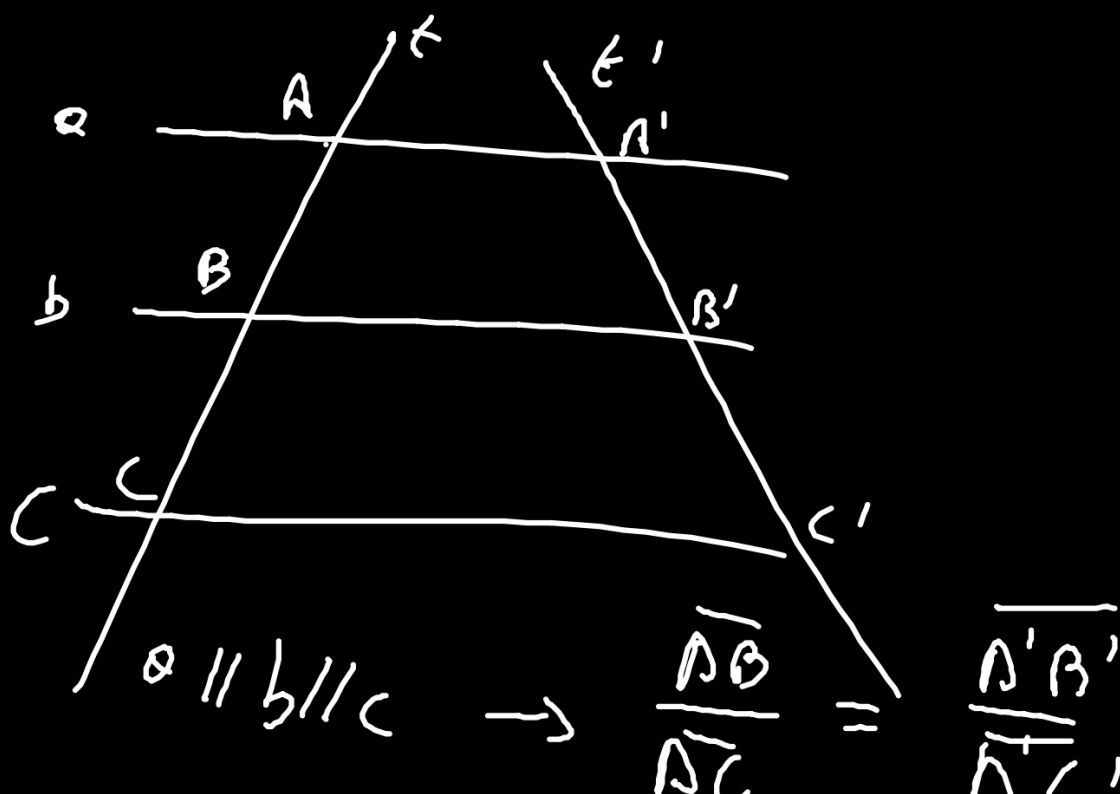
IMAGINE
INGRANDITA
CAPACITA
REALE

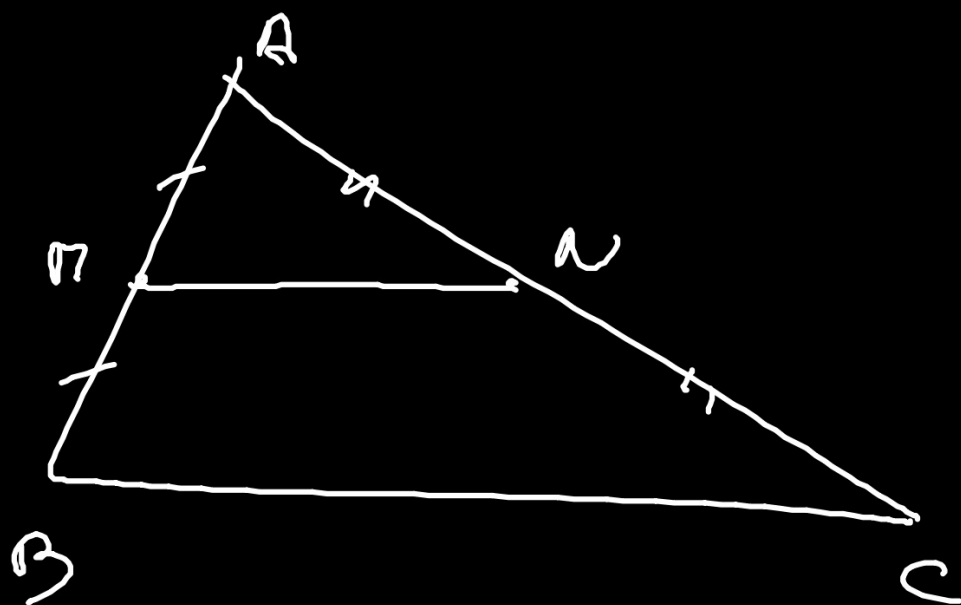
... $VO < f$



INNOGINE
DRITTA
INGRANDITA
VIRTUALE

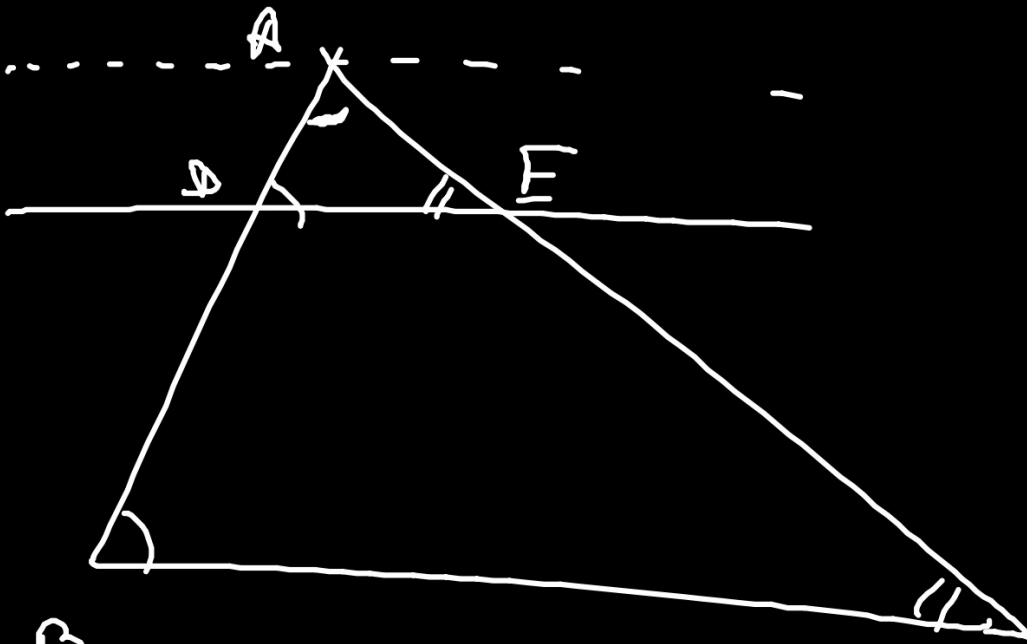
T. DI TALETE





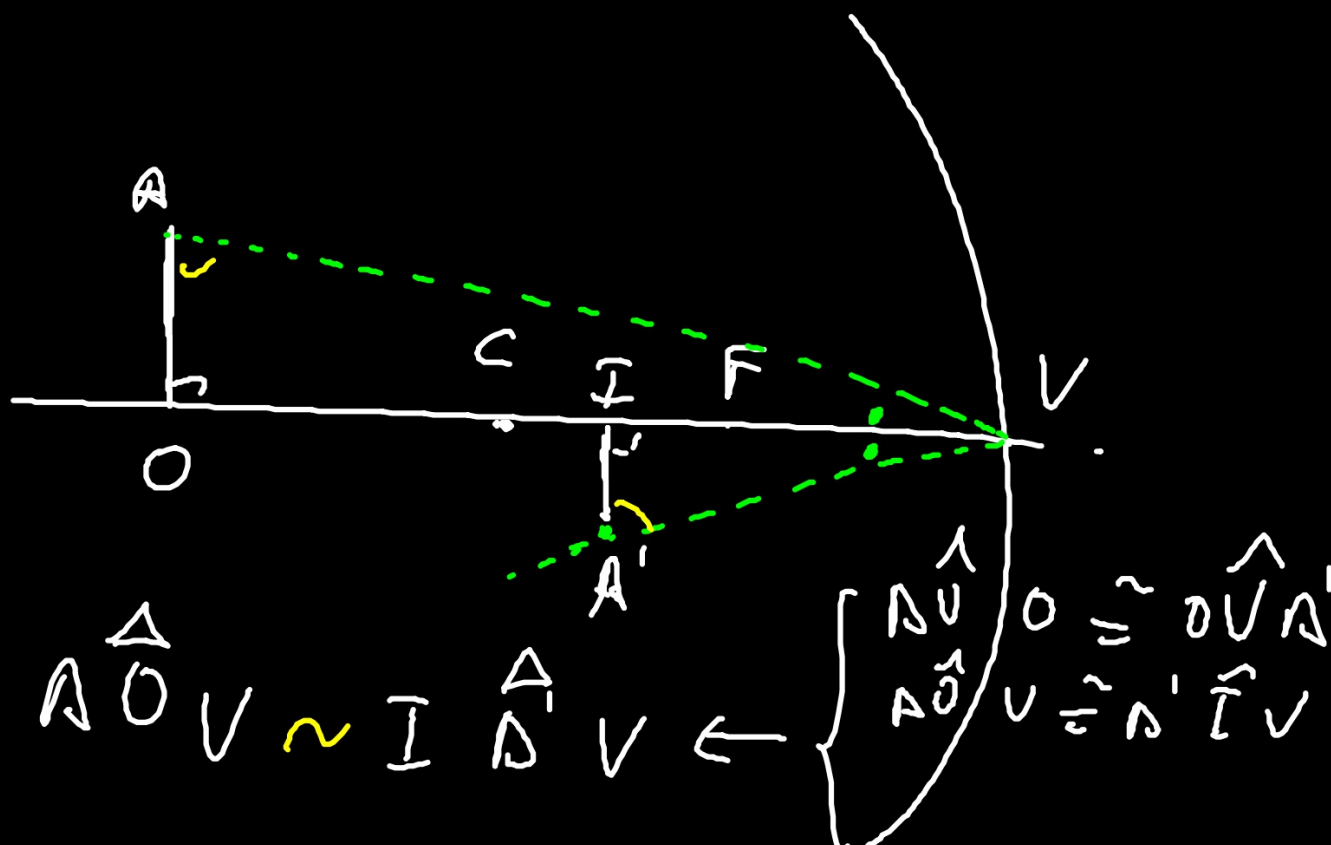
$$MN \parallel BC$$

$$\overline{MN} = \frac{1}{2} \overline{AB}$$



3
 SIMILI
 $\triangle ABC \sim \triangle ADE$ ← {
 1 1 1 1 1 1
 1 1 1 1 1 1
 1 1 1 1 1 1

SPECCHIO SFERICO



$$\triangle AOV \sim \triangle A'OV$$

↓

$$\frac{\overline{AO}}{\overline{OV}} = \frac{\overline{IA'}}{\overline{IV}}$$

↓

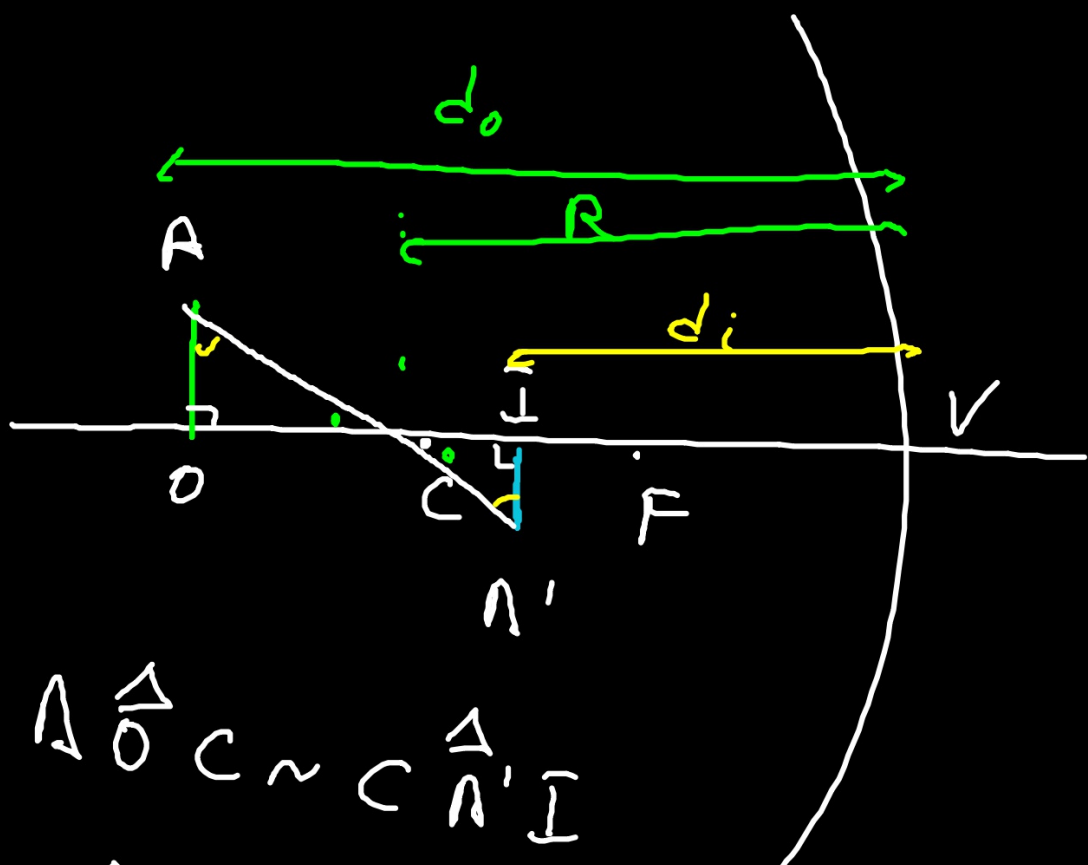
$$\frac{h_o}{d_o} = \frac{-h_i}{d_i}$$

$$h_o > 0$$

$$h_i < 0$$

$$d_o = OV$$

$$d_i = VI$$



$$\triangle OAC \sim \triangle A'IC$$

$\hat{ACO} = \hat{ICA'}$ OPPOSTI AL VERTICE

$$\triangle AOC \sim \triangle I A'$$

↓

$$\frac{\overline{AO}}{\overline{OC}} = \frac{\overline{I A'}}{\overline{I C}}$$

$$\overline{CO} = d_o - R$$

$$\overline{I C} = R - d_i$$

$$\frac{h_o}{d_o - R} = \frac{-h_i}{R - d_i}$$

$$\left\{ \begin{array}{l} \frac{h_o}{d_o - R} = \frac{-h_i}{R - d_i} \\ \frac{h_o}{d_o} = \frac{-h_i}{d_i} \end{array} \right.$$

$$\left\{ \begin{array}{l} \frac{h_o}{h_i} = \frac{d_o - R}{R - d_i} \end{array} \right.$$

$$\left\{ \begin{array}{l} \frac{h_o}{h_i} = \frac{d_o}{d_i} \end{array} \right.$$

$$\frac{d_o}{d_i} = \frac{d_o - R}{R - d_i}$$

$$\frac{d_o}{d_i} = \frac{d_o \left(1 - \frac{R}{d_o}\right)}{d_i \left(\frac{R}{d_i} - 1\right)}$$

$$1 = \frac{1 - \frac{R}{d_0}}{\frac{R}{d_i} - 1}$$

$$\frac{R}{d_i} - 1 = 1 - \frac{R}{d_0}$$

$$\frac{R}{d_i} + \frac{R}{d_o} = 2$$

$$\frac{1}{d_i} + \frac{1}{d_o} = \frac{2}{R} = \frac{1}{f}$$

$$\frac{R}{2} = f$$

$$\frac{1}{d_i} + \frac{1}{d_o} = \frac{1}{f}$$

EQ. DELLO SPECCHIO
O
DEI PUNTI CONIUGATI