

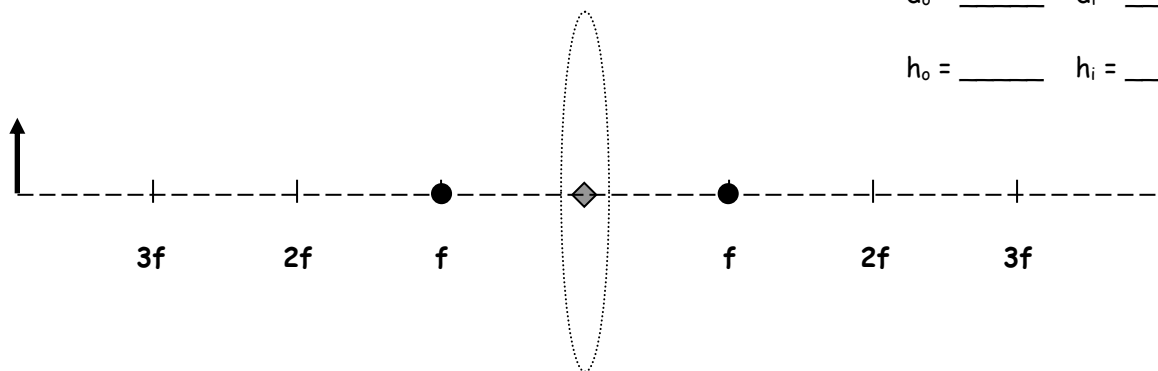
Rules for Ray Tracing with Lenses

- Rays parallel to the principal axis refract through the focus (f).
- Rays through the focus (f) refract parallel to the principal axis.
- Rays through the center of the lens travel straight through and do not refract.

1.

$d_o = \underline{\hspace{2cm}}$ $d_i = \underline{\hspace{2cm}}$

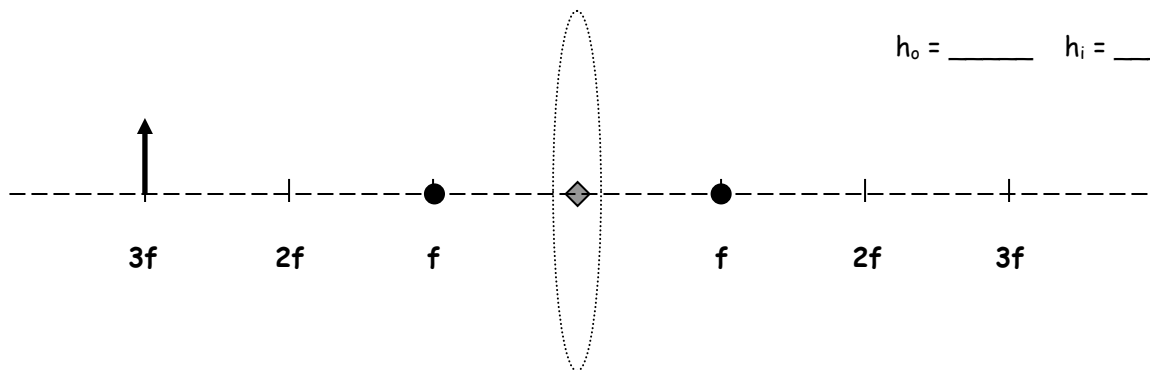
$h_o = \underline{\hspace{2cm}}$ $h_i = \underline{\hspace{2cm}}$



2.

$d_o = \underline{\hspace{2cm}}$ $d_i = \underline{\hspace{2cm}}$

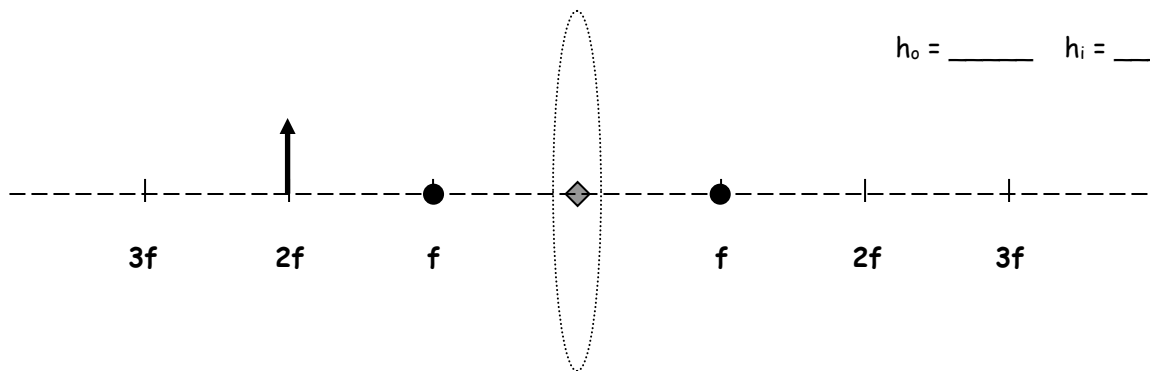
$h_o = \underline{\hspace{2cm}}$ $h_i = \underline{\hspace{2cm}}$



3.

$d_o = \underline{\hspace{2cm}}$ $d_i = \underline{\hspace{2cm}}$

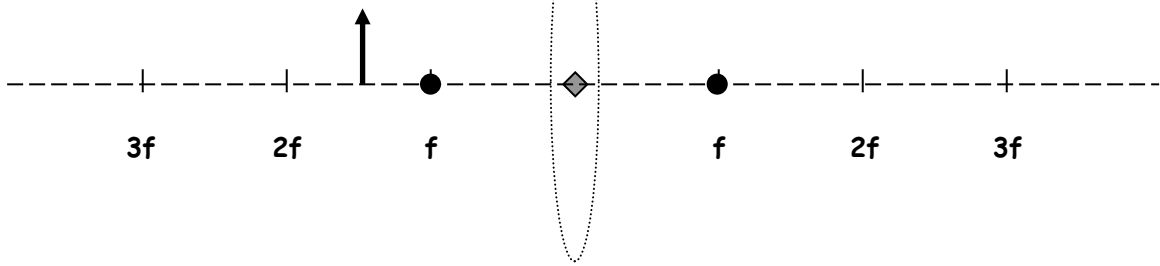
$h_o = \underline{\hspace{2cm}}$ $h_i = \underline{\hspace{2cm}}$



4.

$$d_o = \underline{\hspace{2cm}} \quad d_i = \underline{\hspace{2cm}}$$

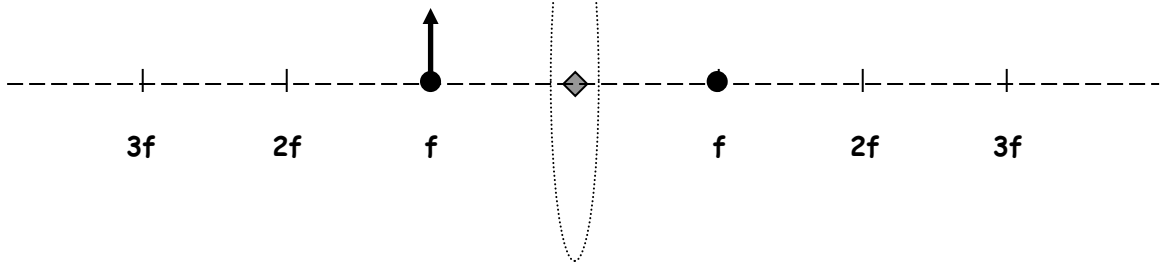
$$h_o = \underline{\hspace{2cm}} \quad h_i = \underline{\hspace{2cm}}$$



5.

$$d_o = \underline{\hspace{2cm}} \quad d_i = \underline{\hspace{2cm}}$$

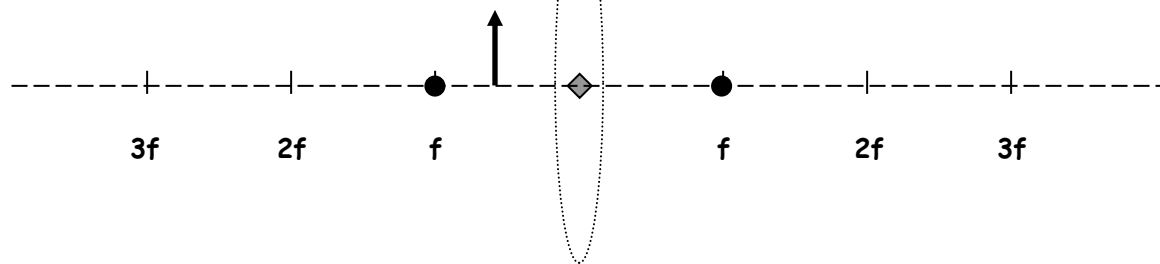
$$h_o = \underline{\hspace{2cm}} \quad h_i = \underline{\hspace{2cm}}$$



6.

$$d_o = \underline{\hspace{2cm}} \quad d_i = \underline{\hspace{2cm}}$$

$$h_o = \underline{\hspace{2cm}} \quad h_i = \underline{\hspace{2cm}}$$



7.

$$d_o = \underline{\hspace{2cm}} \quad d_i = \underline{\hspace{2cm}}$$

$$h_o = \underline{\hspace{2cm}} \quad h_i = \underline{\hspace{2cm}}$$

