

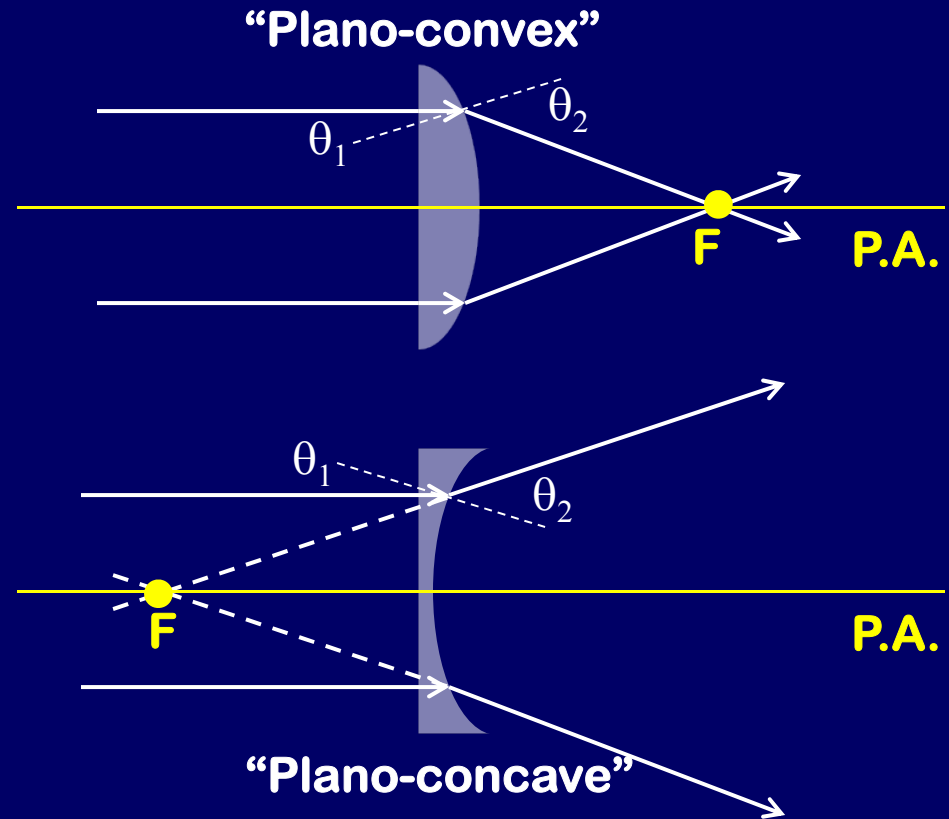
4) Lenses

Converging lens:

- Rays parallel to P.A. converge on focal point

Diverging lens:

- Rays parallel to P.A. diverge as if emerging from focal point behind lens



Focal point determined by geometry and Snell's Law: $n_1 \sin(\theta_1) = n_2 \sin(\theta_2)$

Larger n_2/n_1 = more bending, shorter focal length.
Smaller n_2/n_1 = less bending, longer focal length.
 $n_1 = n_2 \Rightarrow$ No Bending, $f = \text{infinity}$