Geometric Optics Sheet

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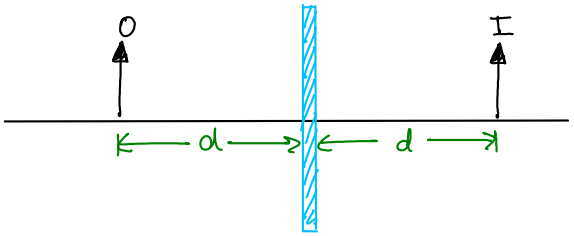
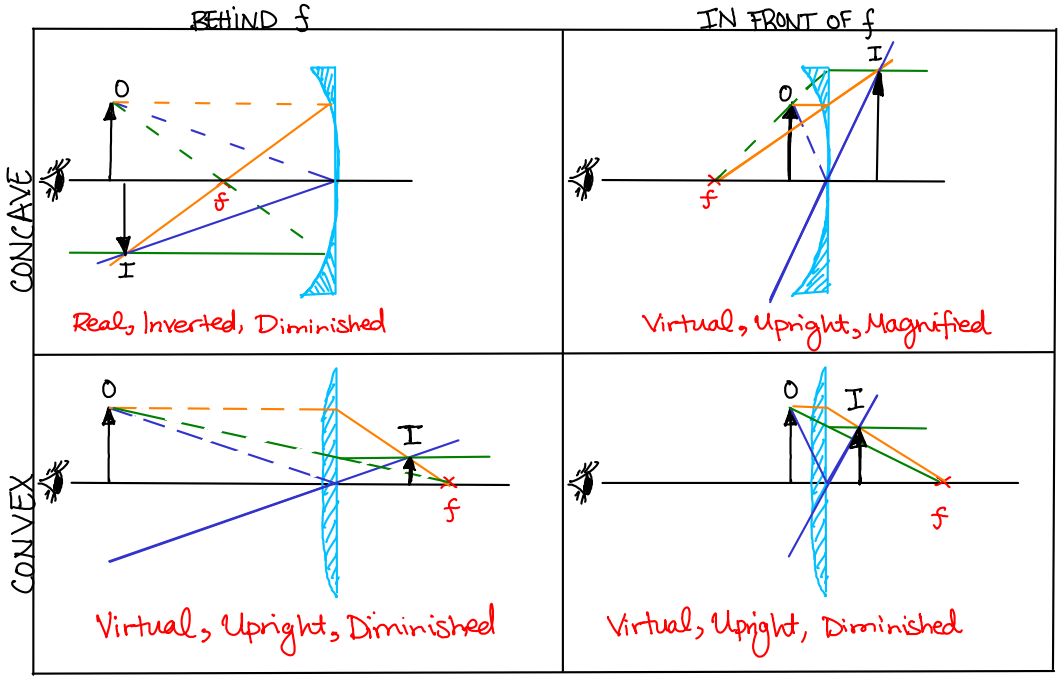
MIRRORS

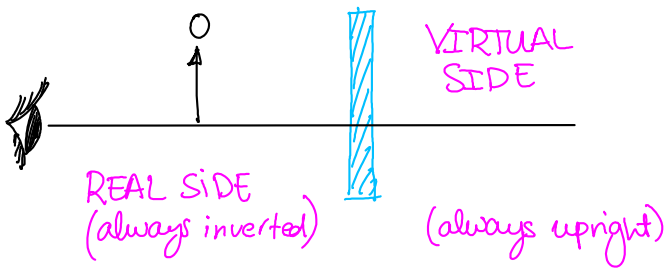
Plane Mirrors: Virtual, upright, image is same size as object



SPHERICAL MIRRORS:

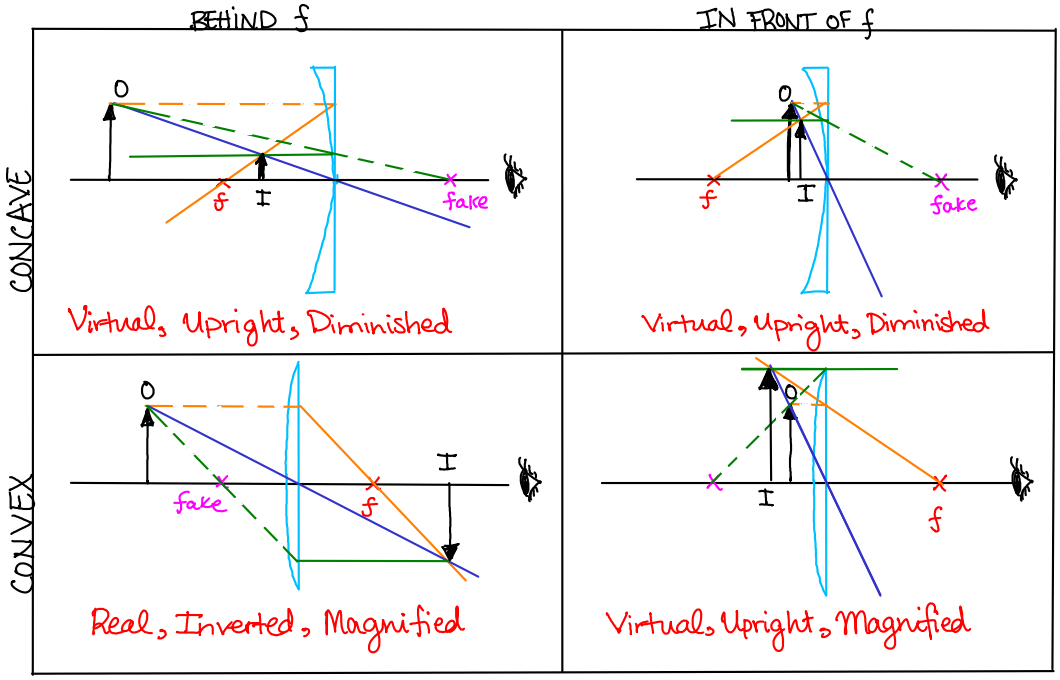
① Draw line from object to center of mirror, $\theta_{in} = \theta_{out}$
② Draw line from object to mirror ∥ to center line, and it'll go through focal point
③ Draw line from object to focal point, at mirror's surface it will go ∥ to center line

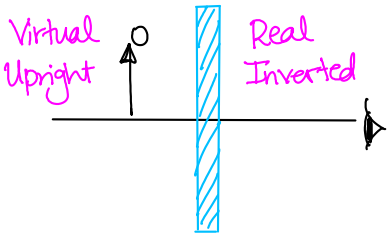




Lenses

① Draw line from object, going straight through middle of lens.
② Draw line from object to lens ⊥ to center line, and it'll go through focal point
③ Draw line from object to "fake" focal point, and it'll go ⊥ to center line





Good website: http://dev.physicslab.org/asp/applets/opticsbench/default.asp