

Review for Light, Mirrors and Lenses

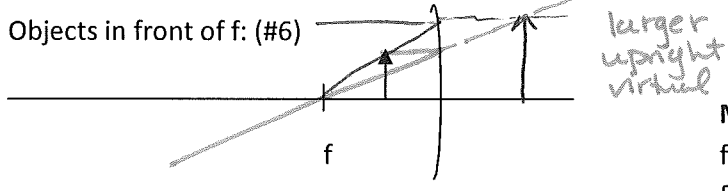
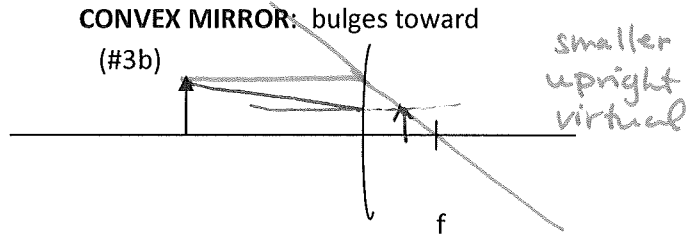
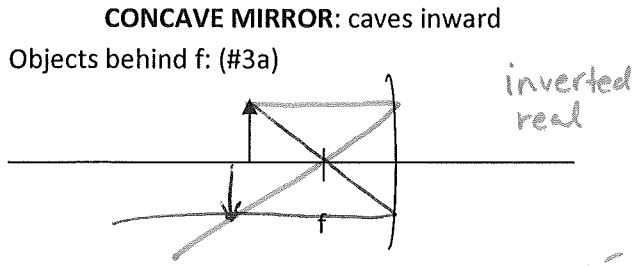
MIRRORS: reflect light

LIGHT:

$c = f \times \lambda$

$c = 3 \times 10^8$ m/s
 $f =$ frequency (Hz)

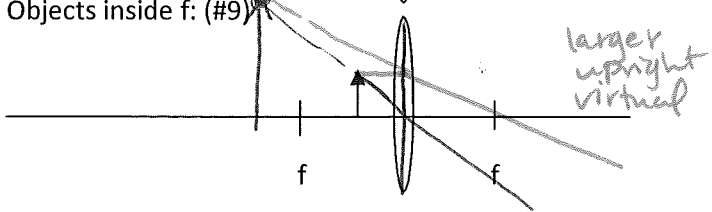
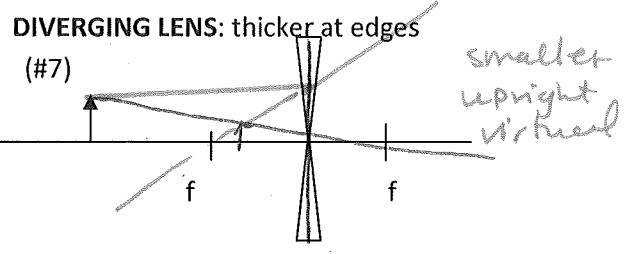
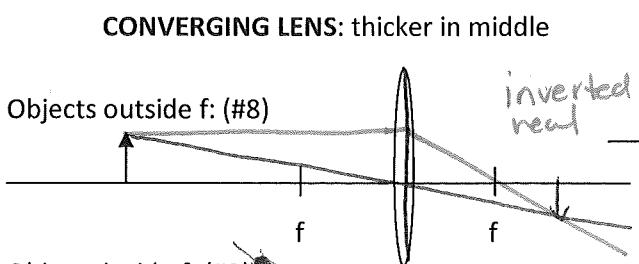
#1, 2



- Mirror Sign Conventions:**
- $f + =$ concave / convex
 - $f - =$ concave / convex
 - $q + =$ in front / behind mirror
 - $q - =$ in front / behind mirror
 - $h_i + =$ upright / inverted
 - $h_i - =$ upright / inverted

Equations: (#4, 5)

LENSES: refract light



- Lens Sign Conventions:**
- $f + =$ converging / diverging
 - $f - =$ converging / diverging
 - $q + =$ object and image on opposite side of lens
 - $q - =$ object and image on same side of lens
 - $h_i + =$ upright / inverted
 - $h_i - =$ upright / inverted

Equations: (#10) Same as mirrors