

# Reflection of Light from Spherical Mirrors

Adam Kelly

September 10, 2018

There are two types of spherical mirror; Concave and Convex.

## DEFINITION

### **Concave Mirror.**

*A mirror 'caves in' at the center*

## DEFINITION

### **Convex Mirror.**

*A concave mirror 'bulges out' at the center*

## 0.1 Real and Virtual Images

## DEFINITION

### **Real Image.**

*An image formed by the actual intersection of light rays. A real image can be located on a screen.*

## DEFINITION

### **Virtual Image.**

*An image formed by the apparent intersection of light rays. A virtual image cannot be formed on a screen (because there are no actual rays to intersect behind the mirror).*

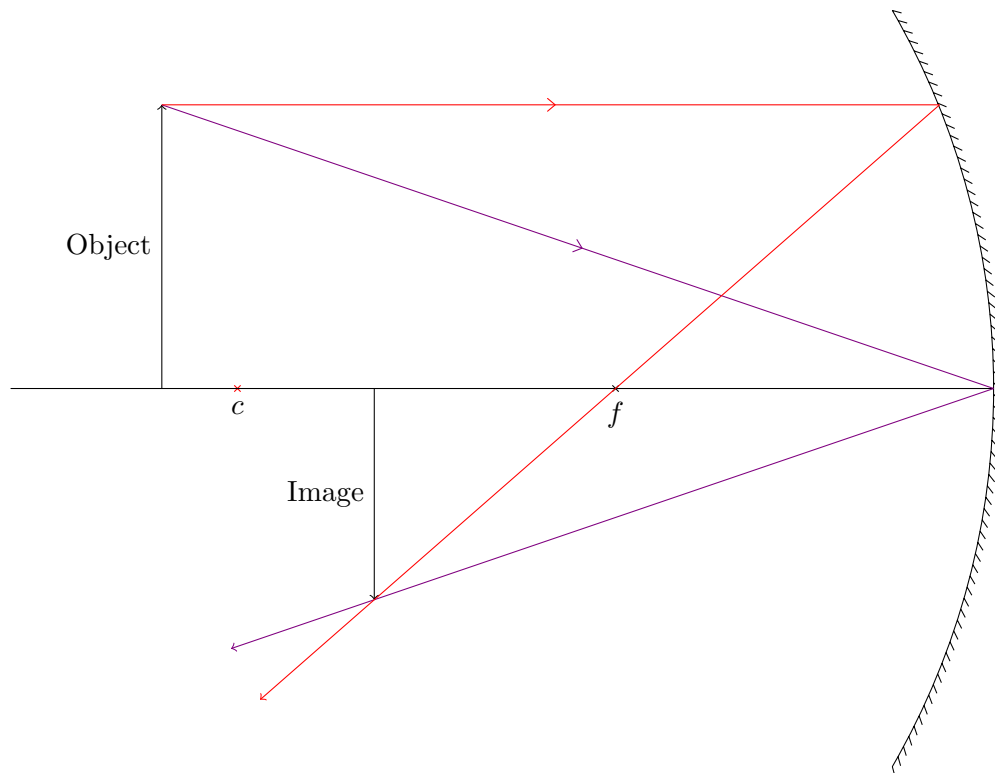


Figure 1: When the object is behind the center ( $c$ ), the image is between  $c$  and the focus ( $f$ ). The image is diminished. It is also real, and by extension inverted.