Al-Mustaqbal University College
Medical Physics Department

Lecture 5 / Optics – Second Stage

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Lecture Outline

Mirror equation

Magnification of Mirror

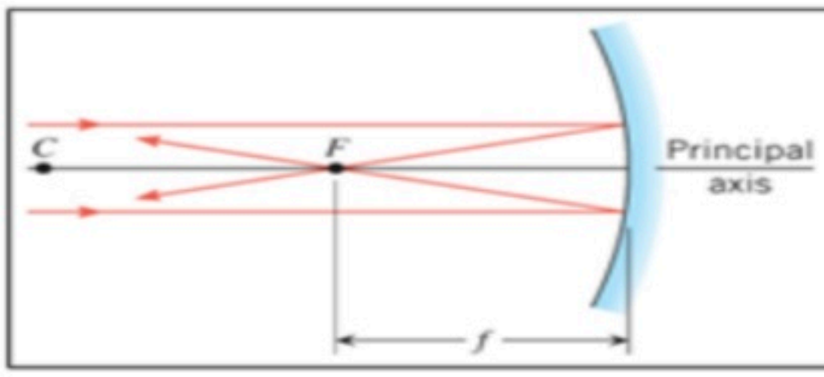
Mirror Equation

One type of mirror is spherical mirror which is contain concave and convex

Terms used to describe spherical mirrors.

1- The focal point F of a concave mirror is halfway between the center of curvature C and the mirror.
2- The focal length f is the distance between the focal point and the mirror.
3- R is the radius of curvature of the mirror

تقع النقطة المحورية F لمرآة مقعرة في منتصف المسافة بين مركز الانحناء C والمرآة. الطول البؤري f هو المسافة بين النقطة المحورية والمرآة R .هو نصف قطر انحناء المرآة



$$f = \frac{1}{2} R$$