RRFLECTION AT CURVED SURFACES

1. Most U.S. passenger cars manufactured in recent years have slightly convex side mirrors on the right side. Suppose your car is equipped with a convex mirror that has a radius of curvature of 7.24 m. How far away will a following car appear to be if it is actually 15.5 m away?
[4m]
A candle is placed 15 cm from the vertex of a concave mirror that has a focal length of 10 cm.a) Locate the position of the image [1m]
b) Find the magnification of the image. [1m]
c) Describe the characteristics of the image.[2m]
[Total 3m]
3. A baby mouse 1.2 cm high is standing 4.0 cm from a converging mirror having a focal length of 300
cm. a) Locate the position of the image by means of [1m]
b) Determine the height of its image. [1m]
[2m]

 Determine the image distance and image height for a 5.00-cm tall object placed 45.0 cm from a concave mirror having a focal length of 15.0 cm. (a) The image distance
[2m] (b) Image height
[1m]
5. Use a ray diagram to show the formation of a real image by a concave mirror.
[3m] 6. Complete the following diagram to show how a concave mirror forms an image of an object O, which is placed outside the focus F of the mirror.
O F
[3m]
7. A 60 cm tall red rose is placed 40 cm from a large convex mirror of focal length 20 cm. a) Locate the position of the image [1m]

b) Find the magnification of the image. [1m]	
c) What is the height of the image? [1m]	
d) Describe the characteristics of the image.[1m]	
[4	m]