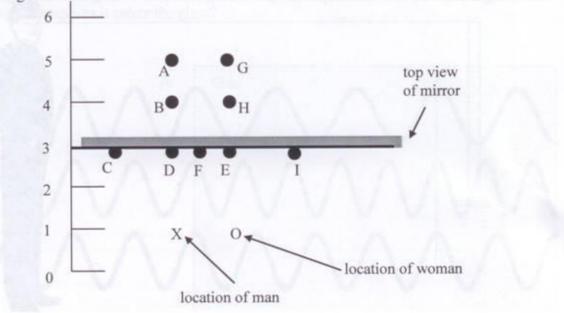
Exam 2 Review Phys 221 – Spring 2012

Name:

1. "A man is standing two feet in front of a flat mirror. He is located at the X shown below. He is looking at his reflection in the mirror. There is a woman standing two feet to the right of the man. Her position is shown by the O below. At which point does she see the image of the man?



2. A person has a near point of 12 cm and a far point of 60 cm. Determine their prescription for glasses. Assume the glasses sit 2 cm from the eyes. Also determine their new near point when wearing these glasses.

3. Draw an accurate ray diagram for the lens in question 2 demonstrating an object at the new near point producing an image at the old near point.

4. Draw a ray diagram(s) demonstrating what would happen if the mirror of a car were concave rather than convex. Assume that the typical mirror has a radius of curvature of 2.0 m. Describe what sort(s) of image(s) a driver would see and if this would be a viable alternative to the typical convex mirror.