

Simulation – (Simbucket Double Slit Interference)

Simulator: www.simbucket.com -> Lens and Mirror lab

Initial setup:

- Select mirror option
- Start object at $3f$ (3 x the focal length)

Questions:

1. Investigate the relationship between **object distance** and **image magnification**.
Write a concluding statement.
2. Investigate the relationship between **focus distance** and **curvature of mirror**.
Write a concluding statement.
3. Investigate the relationship between **focus distance** and **object distance**.
Write a concluding statement.
4. Explain what happens to image when the object is placed between the focal point and mirror
5. Use the simulator to draw 2 ray diagrams (object at $3f$, $2f$)

