

# 1 Reduced Mass

Using your favorite graphing package, make a plot of the reduced mass

$$\mu = \frac{m_1 m_2}{m_1 + m_2} \quad (1)$$

as a function of  $m_1$  and  $m_2$ . What about the shape of this graph tells you something about the physical world that you would like to remember? You should be able to find at least three things. Hint: Think limiting cases.