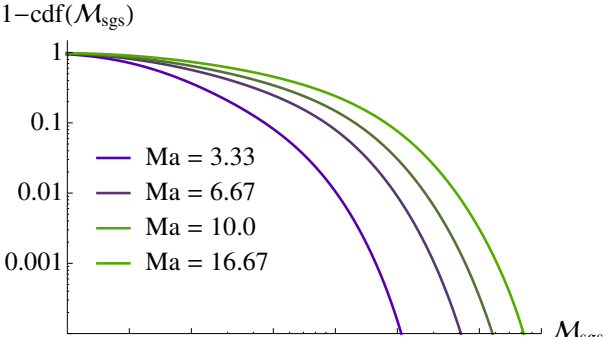
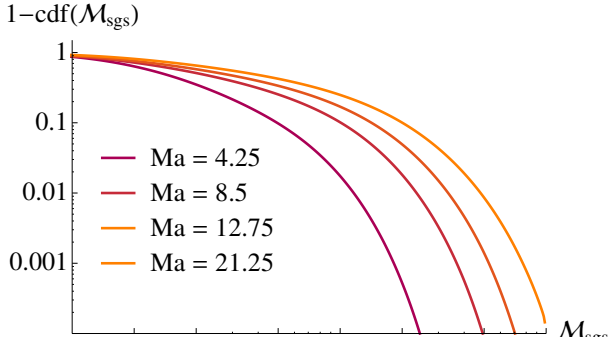


(a) $\zeta = 2/3$



(b) $\zeta = 1/3$