1. The graph of the function $g = ru$, which gives the growth of a species in a year in terms of the population size, is seen in the following diagram. The harvesting strategy is to harvest 100 plus an additional 0.5% of the population each year.

(a) Estimate the stable equilibrium population.

(b) Estimate the minimum viable population.

(c) Estimate the eventual yearly harvest as long as the current population is above the minimum viable population.
2. The graph of the function \( g = ru \), which gives the growth of a species in a year in terms of the population size, is seen in the following diagram.

(a) Estimate the stable equilibrium population if there is a constant yearly harvest of 300.

(b) Estimate the minimum viable population if there is a constant yearly harvest of 300.

(c) Estimate the maximum constant sustainable harvest and the equilibrium population size for this harvest.

(d) Approximate the percent of the population that should be harvested each year to maximize the sustainable harvest.

(e) Estimate the intrinsic growth rate for this population.