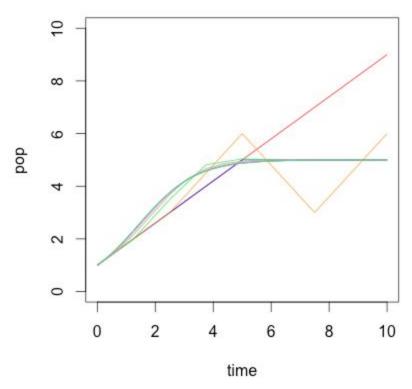
6. t ≈ 44

11.

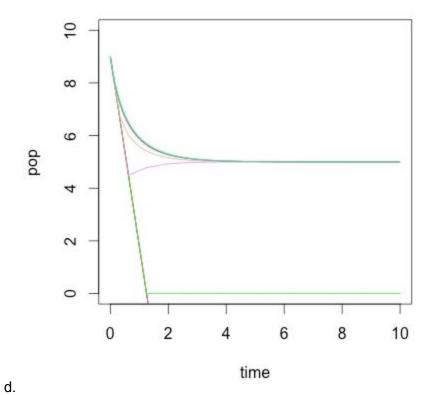
a. $y(10) \approx 4.9991$



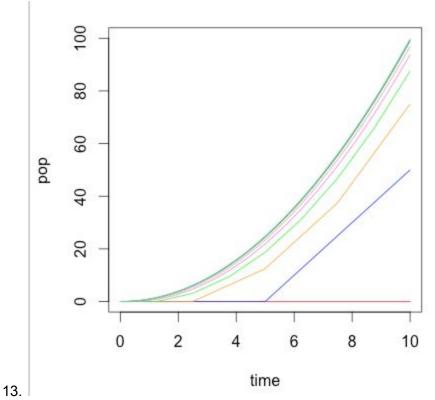
b.

Dramatic variations as the program goes on. Also, the values end at 10, and have no valid y amounts beyond $t=10\,$

c. null, based on the fact that the program will not calculate beyond t = 10



Because the current value of y and y prime are so closed together that the variations are drastic



 $Y(2) \approx 3.999023$

—at least accurate to three decimal places

2.3

8.

Accurate to 8 Decimal Places: 1.31144249215325
Accurate to 12 Decimal Places: 1.31144249821546

9. ≈ 8.3365

11.

a. 9.77666652331342

b. At least 1,000

c. 9.77698465036925

17.

a $\sqrt{250} \approx 15.811388300841896282$

- 8 steps