Word Questions for Log and Exp Function

Q1. Your educational savings plan has an annual interest rate of 2% compounded monthly. If you initially put in $ 15 000, how long would you have to wait to see a return of $ 40 000?

Q2. The swine flu bacteria triple every 20 mins. If there were initially 5 bacterium in the classroom, how long would it take to have 100 bacterium?

Q3. A chain email gets automatically sent to 10 new people every half hour. If 5 people initially sent out the email, how long would you have to wait until 10 000 people see the email?

Q4. A rumour gets told to three new people every two hours. If 8 people know the rumour at first, how many people would know the rumour after 8 hours?

Q5. A bacteria populations becomes 2.2 times larger every three hours. If there’s 3 bacterium at first, what’s the population after 24 hours?