Solve the following problems. Show your process neatly organized. Round your answers to the nearest tenth of a year.

1. $3000 is invested in an account that pays interest at an annual rate of 2.5% compounded quarterly. How long will it take for the value of the account to double?

2. $1000 is invested in an account that pays interest at an annual rate of 3.5% compounded monthly. How long will it take for the value of the account to double?

3. $800 is invested in an account that pays interest at an annual rate of 7.1% compounded continuously. How long will it take for the value of the account to double?

Solve the following problems. Show your process neatly organized. Round your answers to the nearest tenth of a year.

4. $10,000 is invested in an account that pays interest at an annual rate of 4.5% compounded daily. How long will it take for the value of the account to reach $25,000?

5. $200 is invested in an account that pays interest at an annual rate of 3% compounded quarterly. How long will it take for the value of the account to reach $500?

6. $500 is invested in an account that pays interest at an annual rate of 5% compounded continuously. How long will it take for the value of the account to reach $1500?

Solve the following problems. Show your process neatly organized. Round your answers to the nearest tenth of a year.

7. Money is invested in an account that pays interest at an annual rate of 4% compounded quartery. How long will it take for the value of the account to double?

8. Money is invested in an account that pays interest at an annual rate of 1.5% compounded daily. How long will it take for the value of the account to double?

9. Money is invested in an account that pays interest at an annual rate of 4% compounded continuously. How long will it take for the value of the account to double?