The Fidelity Diversified International (FDIVX) mutual fund has a five year average rate of return of 14.37%.

Treat this rate of return as if it were continuous over the five year period.

- 1. If you put \$10,000 in the fund five years ago, how much would you have in the fund now?
- 2. If you want to have \$50,000 in the account now, how much should you have put in five years ago?
- 3. Suppose that you now have \$20,000 to invest, and you want \$60,000 in five years. What average rate of return would you need the fund to meet?