1. The yield rate for an investment in which \( R_0 = -3000 \), \( R_1 = 1000 \), and \( R_2 = 4000 \) can be expressed as \( \frac{1}{n} \). Find \( n \) (an integer).

2. Payments of 100 now and 108.15 two years from now are equivalent to a payment of 208 one year from now at either rate \( i \) or \( j \). Find \( |i - j| \).

3. Text, Chapter 5, No. 11 (p. 161).

4. text, Chapter 5, No. 12 (p. 161).

5. An investment fund has a value of 1000 at the beginning and the end of the year. A deposit of 200 was made at the end of four months. A withdrawal of 300 was made at the end of seven months. Find the rate of interest earned by the fund assuming simple interest during a year (formula 5.13).