Practice worksheet | Financial mathematics

Finding deposits, rates, terms and accumulated amounts

Name: _____ Date: _____

6 questions | 18 marks

1. AUD 3,000 is already saved. What year-end deposit reaches AUD 12,000 in 5 years at 4%? [3 marks]

2. With no interest, what monthly deposit reaches AUD 2,400 after 16 months? [3 marks]

3. A person can deposit AUD 250 at each year end for 6 years. At 3%, how much initial savings are needed to reach AUD 8,000? [3 marks]

4. Find the annual rate i between 0 and 10% for which five end-of-year deposits of AUD 1,000 accumulate to AUD 5,500. [3 marks]

5. A solver gives $n = 9.18$ annual deposits to reach a target. How many whole deposits are needed, and what check should be made? [3 marks]

6. At 4% annually for 10 years, compare the end-of-year and beginning-of-year deposits needed to reach AUD 20,000. [3 marks]