

Name: _____

Date: _____

Scaffolded Practice: Analyzing Savings Account Options Using Equations and Inequalities

Use the compound interest formula, $A = P \left(1 + \frac{r}{n} \right)^{nt}$, to create an equation to model the growth of the account balance in problems 1–4.

1. Principal: \$10,000
APR: 0.7%
Compounding period: quarterly

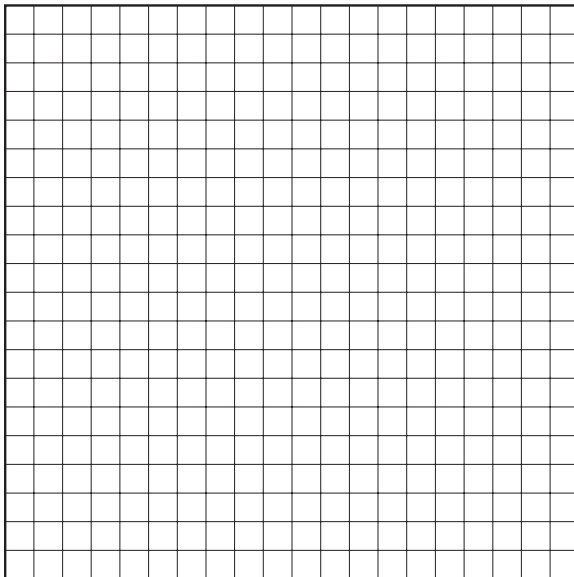
3. Principal: \$8,000
APR: 3%
Compounding period: yearly

2. Principal: \$2,000
APR: 2.1%
Compounding period: monthly

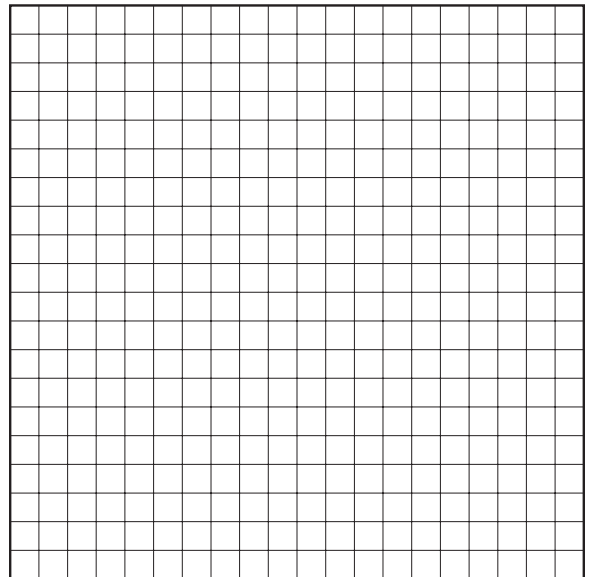
4. Principal: \$1,800
APR: 1.46%
Compounding period: daily

Graph the given equations in problems 5–7.

5. $A = 1,000 \left(1 + \frac{0.015}{12} \right)^{12t}$



6. $A = 1,500 \left(1 + \frac{0.02}{4} \right)^{4t}$



continued

