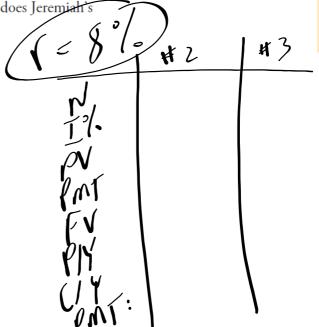
EXAMPLE **3** p. 489

Determining the interest rate of a regular payment investment

Jeremiah deposits \$750 into an investment account at the end of every 3 months. Interest is compounded quarterly, the term is 3 years, and the future value is \$10 059.07. What annual rate of interest does Jeremiah's

investment earn?



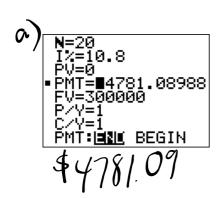


example **4** p. 490

Determining the regular payment amount of an investment

Celia wants to have $$300\,000$ in 20 years so that she can retire. Celia has found a trust account that earns a fixed rate of 10.8%, compounded annually.

- **a)** What regular payments must Celia make at the end of each year to meet her goal of \$300 000?
- **b)** How much interest will she earn over the 20 years?





Determining the term of a regular payment investment

On Luis's 20th birthday, he started making regular \$1000 payments into an investment account at the end of every 6 months. He wants to save for a down payment on a home. His investment earns 3.5%, compounded semi-annually.

At what age vill he have more than \$18 000?

3

IN CLASS PRACTICE WITH THE TI-84...



p. 493: #1, 2, 4, 7, 8, 10, 11, 12, 13, 15