Answer on Question #76584 - Math - Financial Math

Question

You deposit 500 in an account today and an additional amount X in one year. The account pays 3.5% annually. What amount X is required to have 2000 in the account at the end of three years?

Solution

First year, 500 dollars. 0.035*500 After one year, 500*1.035+x

At the end of two more years, (500*1.035+x)*1.035²=2000; x= 2000/1.035²-500*1.035; x=1867.02-517.5=\$1349.52.

Answer: \$1349.52.