

Tre anni fa abbiamo versato in banca un certo capitale al tasso annuale del 2%. Oggi possiamo ritirare 3000 euro.

Quanto avevamo versato tre anni fa?

The image shows a chalkboard with handwritten mathematical work. On the left side, there is a timeline diagram with an arrow pointing right, marked with -3, -2, -1, and 0. An arrow labeled 'X' points down at -3, and an arrow labeled '3000' points down at 0. Below the diagram, the following is written:

$$C_{-3} = X$$
$$C_0 = 3000$$
$$i = 0,02$$
$$C_{-3}(1+i)^3 = C_0$$
$$X(1,02)^3 = 3000$$
$$X = \frac{3000}{(1,02)^3} = 2826,97$$

On the right side of the chalkboard, the following is written:

$$C_{-3} = C_0(1+i)^{-3}$$
$$C_{-3} = 3000(1,02)^{-3} = 2826,97$$

Below this, it says: "da  $C_{-3}(1+i)^3 = C_0$  moltiplicando i due membri dell'equazione per  $(1+i)^{-3}$  si ottiene  $C_{-3}(1+i)^3(1+i)^{-3} = C_0(1+i)^{-3}$ "

$$C_{-3} = C_0(1+i)^{-3}$$

Quindi tre anni fa avevamo versato 2826,97 euro (che corrispondono a 3000 euro di oggi)