## Solution:

We'll use the following formulae for composite percentage
$\mathrm{FV}=\mathrm{PV}^{*}(\mathbf{1}+\mathrm{i})^{\mathrm{n}}$,
where FV - future value, PV - present value, $\mathbf{i}$ - interest rate, $\mathbf{n}$ - number of years.
In our case, $\mathbf{F V}=\mathbf{P V}+\mathbf{6 0 0 0}$, so we get:
$P V+6000=P V * 1.07^{5}$
1.4026*PV - PV $=6000$
$0.4026 *$ PV $=6000$
$P V=6000 / 0.4026=$ is the sum of money we need to put into the account to get $\$ 6,000$ more in 5 years.

Answer: \$14,904.92

