26 A sinusoidal alternating current of peak value I_o passes through a resistor of resistance R. The mean power developed by the current in the resistor is P.

Another sinusoidal alternating current passes through a resistor of resistance $2R$. If the mean power developed by this current in it is $4P$, what is the root-mean-square value of this current?

A 2.0 I_o B 1.4 I_o C 1.0 I_o D 0.70 I_o