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\begin{align*}&a_1=3.0\end{align*}

\begin{align*}&a_2=11.4\end{align*}

\begin{align*}&\gamma_{1,2}=1.3\end{align*}

\begin{align*}&res=\dfrac{a_1+a_2}{\gamma_{1,2}}+a_1^2=\dfrac{3.0+11.4}{1.3}+3.0^2=20.1\end{align*}

\begin{align*}&res-a_1^2=20.1-3.0^2=11.1\text{kg}\end{align*}

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