1. Find the derivative of each:
(a) $y=3 \cos \frac{1}{2} t$
(b) $y=5 t^{2} e^{-2 t}$
2. Find the second derivative of $y=C_{1} \sin 4 t+C_{2} \cos 4 t$, where $C_{1}$ and $C_{2}$ are constants.
is equivalent to...
is equivalent to
find a function $y=y(t)$ for which $\frac{d^{2} y}{d t^{2}}=-16 y$
which is equivalent to ...
is equivalent to
find a function $y=y(t)$ for which $\frac{d^{2} y}{d t^{2}}=-16 y$
which is equivalent to
solve the differential equation $\frac{d^{2} y}{d t^{2}}=-16 y$
