## Quiz 7, April 6, 2017, 11:40 class

Find the Laplace transform of of $\cos ^{2} 2 t$.
Answer:

$$
\mathcal{L}\left(\cos ^{2} 2 t\right)=\frac{1}{2} \mathcal{L}(1+\cos 4 t)=\frac{1}{2}\left(\frac{1}{s}+\frac{s}{s^{2}+16}\right) .
$$

