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

Find the Laplace transform of $\cos^2 2t$.

Answer:

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