PRINT Your Name:	PRINT	Your	Name:				
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Quiz for June 21, 2012

The quiz is worth 5 points. Remove EVERYTHING from your desk except this quiz and a pen or pencil. SHOW your work. Express your work in a neat and coherent manner. BOX your answer.

Find $\mathcal{L}(\cos^2 2t)$.

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