PRINT Your Name: $\qquad$
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 $\mathcal{L}\left(\cos ^{2} 2 t\right)$.
ANSWER: We have $\mathcal{L}\left(\cos ^{2} 2 t\right)=\frac{1}{2} \mathcal{L}(1+\cos (4 t))=\frac{1}{2}\left(\frac{1}{s}+\frac{s}{s^{2}+16}\right)$.

