PRINT Your Name:____________________________________

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. $\boxed{\text{BOX}}$ your answer.

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

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