

Please PRINT your name \_\_\_\_\_

The quiz is worth 5 points. Please make your work coherent, complete, and correct. Please **CIRCLE** your answer. Please **CHECK** your answer whenever possible.

The solution will be posted later today.

**No Calculators, computers, smart phones, notes, etc.**

**Quiz 7, April 10, 2018**

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

**Answer.**

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