

**KFUPM.....Math & Stats Dept ....Math 301-02 (123) ... Quiz #5**

**ID:..... Name:.....**

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**Exercise #1:** Find the Laplace transform of

$$f(t) = t - \sin^2 3t, t \geq 0$$

**Exercise #2:** Find the inverse Laplace transform of

$$F(s) = \frac{s + 1}{s^2 + 4s + 7}$$