Quiz 1 Name

1) Find the solution of the following integral. (2 points)

$$\int_0^{\frac{\pi}{2}} \cos(\sqrt{x}) dx \tag{1}$$

hint: Use the substitution  $x=u^2$ , then use the method of integration by parts in order to find the solution.

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2) Evaluate the following integral.

$$\int x(3^x + \ln(x))dx \tag{2}$$