

Rhino Participation Bonus (+2)

In STAT 511 and STAT 516, the following integrals are needed, Both are functions of a .

Use integration by parts to find the antiderivatives. Complete each box. Show correct work for credit.

(+1) 1. $\int axe^{-ax} dx =$ $+ C$

(+1) 2. $\int ax^2e^{-ax} dx =$ $+ C$ Hint: Use #1.