

Integrate by Partial Fractions

Session 74

$$\int \frac{(u^2 + 2u + 3) du}{(u+1)(u+2)(u+3)} = \int \left(\frac{1}{u+1} - \frac{3}{u+2} + \frac{3}{u+3} \right) du = \ln|u+1| - 3\ln|u+2| + 3\ln|u+3| + C$$