Discussion 8.1

D Stany dy

u = tany

 $du = \frac{dy}{1+y^2}$

dv = dy

v=y

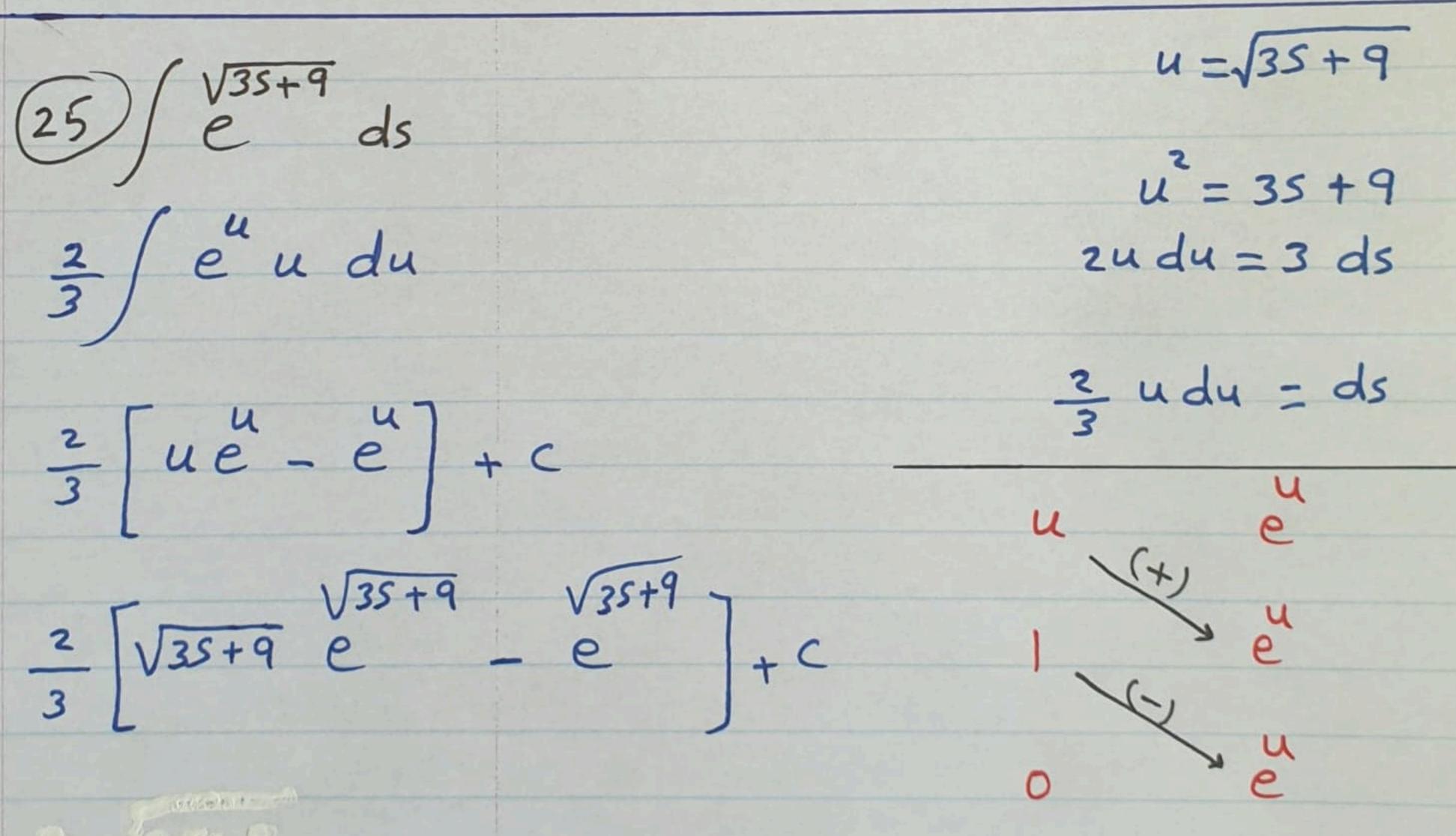
= ju dv

= uv _ (vdu

 $= y \tan y - \int \frac{y}{1+y^2} dy$

 $= y + any - \frac{1}{2} \int \frac{2y}{1+y^2} dy$

 $|1+y^{2}| = 1+y^{2}$ $= y + an y - \frac{1}{2} \ln(1+y) + C$





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