GIULLIO EMMANUEL DA CRUZ Di GEROLAMO RA = 790965

$$\int_{\infty}^{\infty} \int_{\infty}^{\infty} \int_{\infty$$

b)
$$\int x^3 \sqrt{x^2 + 2} dx = \int \int (u^2 - 2) u \mathcal{L}u du = \int (u^2 - 2) u^2 du = \int u^4 - 2u^2 du = \int u^4 du - \int \mathcal{L}u^2 du = u^2 - 2u^3 = (\sqrt{x^2 + 2})^5 - 2(\sqrt{x^2 + 2})^3 = \int (x^2 + 2)^4 du = \int (x^2 + 2)^4 du$$