(2c)(iii) $\int \tan^2 x \, dx$

$= \tan x - x + c$

(2d) $\int \frac{x^3}{\sqrt[3]{2+x^4}} \, dx$

let $u = 2+x^4$

$\frac{du}{dx} = 4x^3 \quad \therefore \quad dx = \frac{du}{4x^3}$

$\int \frac{x^3}{\sqrt[3]{u}} \frac{du}{4x^3}$

$= \int \frac{4}{\sqrt[3]{u}} \, du \quad = \int 4u^{-\frac{1}{3}} \, du$

$= \frac{4u^{2/3}}{2/3} + c$

$= 6u^{2/3} + c$

$\therefore = 6(2+x^4)^{2/3} + c$