Problem statement Compute:

a) $\int_0^{\frac{\pi}{2}} \left(\int_y^{\frac{\pi}{2}} \frac{\sin x}{x} \, dx \right) dy$ b) $\int_0^1 \left(\int_{\sqrt{y}}^1 e^{(7x^3)} \, dx \right) dy$ c) $\int_0^1 \left(\int_x^{x^{1/3}} \sqrt{1-y^4} \, dy \right) dx$

Hint Write 'em as a double integral, then re-iterate.