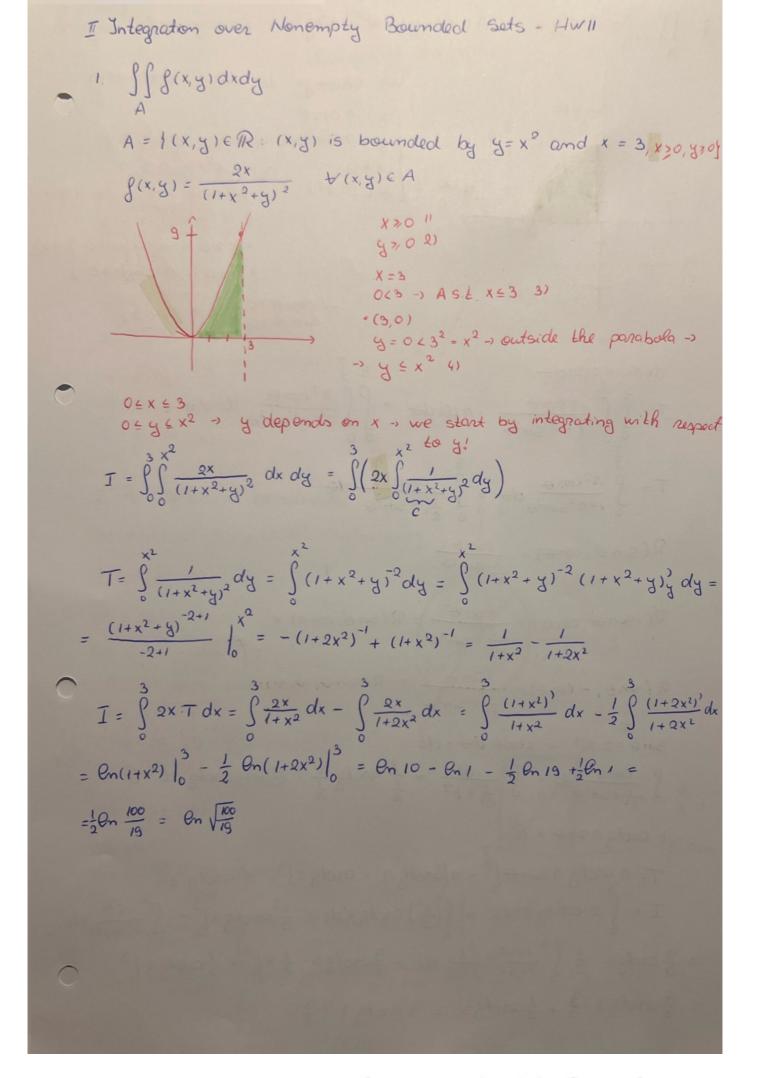
$$= \pi \left( 0 + \frac{\pi}{4} + \frac{\pi \sqrt{2}}{5} \right) = \pi \cdot \frac{\pi (1 + \sqrt{3})}{5} = \frac{\pi^{2} (1 + \sqrt{3})}{5}$$

$$5. \int_{1}^{5} \int_{2}^{3} \frac{1}{(x + \sqrt{3})^{2}} dx dy = \int_{1}^{6} \int_{3}^{3} \frac{1}{(x + \sqrt{3})^{2}} dy dx = \int_{1}^{6} \left( \frac{1}{-2} \cdot \frac{1}{(x + \sqrt{3})^{2}} \right) dx = \frac{1}{2} \int_{1}^{6} \left( \frac{1}{x + 3} - \frac{1}{x + 2} \right) dx = -\frac{1}{2} \left( \theta_{m}(x + 3) \right)_{1}^{6} - \theta_{m}(x + 2) |_{1}^{6} \right) = \frac{1}{2} \left( \theta_{m} \cdot 3 - \theta_{m} \cdot 4 - \theta_{m} \cdot 8 + \theta_{m} \cdot 3 \right) = -\frac{1}{2} \left( \theta_{m} \cdot 2x - \theta_{m} \cdot 32 \right) = -\frac{1}{2} \theta_{m} \cdot \frac{2x}{32}$$

$$6. \int_{0}^{5} \int_{0}^{1} \frac{x}{(1 + x^{2} + x^{2})^{3}} dx dy = \frac{1}{2} \int_{1}^{2} \frac{x}{(1 + x^{2} + x^{2})^{3}} dx dy = \frac{1}{2} \int_{1}^{2} \frac{x}{(1 + x^{2} + x^{2})^{3}} dx dy = \frac{1}{2} \int_{1}^{2} \frac{x}{(1 + x^{2} + x^{2})^{3}} dx dy = \frac{1}{2} \int_{1}^{2} \frac{1}{$$



2. 
$$\iint_{A} \frac{x}{1+y^{2}} \, dx \, dy \qquad A = \int (x,y) \in \mathbb{R}^{2} : x^{2}y^{2} \in S, \ x \ni 0, y \ni 0 \oint$$

whe change be pollar coordinates
$$\begin{cases} x = R \cos \theta \\ y = R \sin \theta \end{cases} + \text{merge with } A$$

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