2. a)
$$\int (2\pi) \operatorname{and}_{y}(\pi^{2})$$

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=
$$x^2$$
 arcty (x^2) - $\int x^2 \frac{2x}{1+x^4} dx$
= x^2 arcty (x^2) - $2\frac{1}{4}\int \frac{3x^4}{1+x^4} dx$
= x^2 arcty (x^2) - $\frac{1}{2}$ ln (1+ x^4)+C,
CER em intervalos.

 $=\int \frac{1}{1+\frac{2^{2}+2^{-2}}{2}} dx$

 $\frac{t^{2}+2t+1=0}{t=\frac{-2\pm\sqrt{4-4(4)}}{2}}$

t=-1 v t=-1

£2+2++1 = (++1)(++1)

$$= \int \frac{2}{z+e^{2}+e^{2}} dx$$

$$= \int \frac{2e^{2}}{2e^{2}+e^{2}+1} dx$$

$$= \int \frac{2}{2e^{2}+e^{2}+1} dx$$

$$= \int \frac{2}{2e^{2}+1} dx$$

$$= \int \frac{2}{2e^$$

CER em intervalos.