Analiza

1. a)
$$= \int_{0}^{\infty} \frac{ard 5 \times dx}{1 + x^{2}} dx = \int_{0}^{\infty} t dt = \frac{ard 2}{2} \int_{0}^{\infty} = \left(\frac{1}{2}\right)^{2} = \frac{\pi^{2}}{8}$$
 $t = ard g_{x} dx / t_{1},$
 $t = \frac{1}{4 + x^{2}} dx = \int_{0}^{\infty} \frac{x}{\sqrt{1 - x^{2}}} dx + \int_{0}^{\infty} \frac{1}{\sqrt{1 - x^{2}}} dx$
 $= -\sqrt{1 - x^{2}} \Big[+ arc sin \Big]_{0}^{\infty} = arc sin - a - carc sin - a = \frac{1}{2} - \frac{3}{2} = -1$

(1) $\int_{0}^{\infty} \int_{0}^{\infty} x^{m} dx - \int_{0}^{\infty} x^{m} dx = x^{m} (-1 + x) + n \int_{0}^{\infty} a^{-x} x^{-x} dx$
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In So onth x = So antgx + lim So ortgx

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$$\int_{1}^{2} \lim_{x \to \infty} (x - 0)^{p}$$

div + cov= div => ldiv.