## Analiza

Denotion 7

(a) Evaluati integrally:

(b) Evaluati integrally:

(c) 
$$x = 0$$

(c)  $x = 0$ 

(c)  $x = 0$ 

(d)  $x = 0$ 

(e)  $x = 0$ 

(e)  $x = 0$ 

(f)  $x = 0$ 

(f)  $x = 0$ 

(g)  $x = 0$ 

(g)

$$\int_{-1}^{13} \frac{1}{x(x^{2}+1)} = \int_{-1}^{13} \frac{1}{x} + \frac{-x}{x^{2}+1} = \int_{-1}^{13} \frac{1}{x} \int_{-2}^{13} \frac{$$

4=7B=-1

( = D

 $2^{m} = \frac{11}{2} - \frac{311}{2} / 2$   $3^{m} = \frac{11}{2} - \frac{311}{2} / 2$   $3^{m} = \frac{11}{2} - \frac{311}{2} / 2$   $3^{m} = \frac{11}{2} - \frac{311}{2} / 2$   $4^{m} = \int_{2}^{4} \frac{(x^{2} - 2)^{2}}{x} dx = \int_{\frac{1}{2}}^{4} \frac{(x^{2} - 2)^{2}}{x} dx = \int_{2}^{4} \frac{(x^{2} - 2)^{2}}{x} dx = \int_{$ 

$$= \int_{2}^{5} \frac{\frac{3}{\sin^{2}t} - \frac{1}{5}}{\sin^{2}t} \cdot (-tgt) dt = \int_{2}^{5} \frac{\frac{3}{5} - \frac{4}{5} \sin^{2}t}{\sin^{2}t} \cdot (-tgt) dt$$

$$= \int_{2}^{5} \frac{\frac{3}{5} (1 - \sin^{2}t)}{\sin^{2}t} \cdot (-tgt) dt = \int_{2}^{5} \frac{\cos^{2}t}{\sin^{2}t} \cdot (-tgt) dt$$

$$= \int_{2}^{6} \frac{3}{5} (1 - \sin^{2}t) \cdot (-tgt) dt = \int_{2}^{5} \frac{\cos^{2}t}{\sin^{2}t} \cdot (-tgt) dt$$

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 $= -2 \left[ -\frac{1}{\sqrt{3}} \left( \frac{1}{6} - x \right) \right] - 2 \left( \frac{\cos x}{\sin x} \right) \left[ \frac{1}{6} - x \right] \left[ \frac{1}{6} \right)$ 

 $=2\left(\sqrt{3}-\left(\frac{1}{6}-\frac{3}{2}\right)\right)=2\left(\sqrt{3}-\frac{21}{6}\right)=2\sqrt{3}-\frac{21}{3}$