

Esercizi

Tracciare il grafico delle seguenti funzioni:

261. $\sqrt{x+1} - \sqrt{x}$

262. $(x^2 + 2x)e^x$

263. $-\ln \sin x$

264. $\sqrt{\frac{x^3}{x+3}}$

265. $\frac{1-x}{x^2+3}$

266. $\frac{e^x+1}{e^x-1}$

267. $\frac{x-1}{x^3}$

268. $x^2(\ln x - 1)$

269. $\frac{e^{2x}+1}{e^x-1}$

270. $\frac{x+3}{x^2-5}$

271. $x + 2 \cos x$

272. $\frac{x^2-2}{x+1}$

273. $\frac{x}{x-1}e^{-x}$

274. $\ln(1 + 2 \sin^2 x)$

275. $(x+1)e^{x/(x-1)}$

276. $(x-2)e^{x/(x-1)}$

277. $\ln \frac{x^2}{x-1}$

278. $2x - \arcsin x$

279. $\frac{\ln x}{x^2}$

280. $\sin x + \cos x$

281. $x - 2 \operatorname{arctg} x$

282. $e^{-x/(x^2+1)}$

283. $e^{x/(x^2-1)}$

284. $\cos x e^{\frac{1}{2} \sin x}$

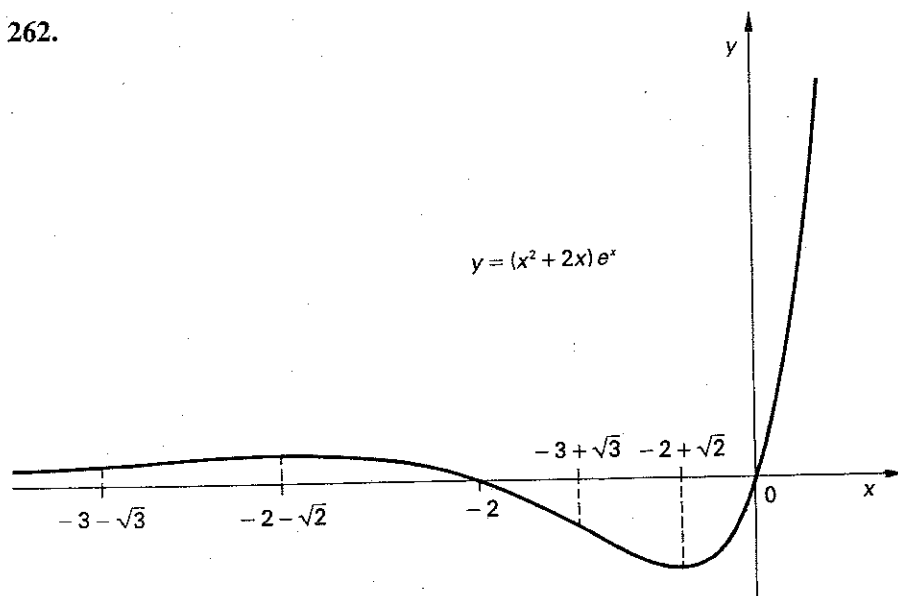
285. $\frac{x}{x+1}e^{-x}$

286*. $\frac{\operatorname{arctg} x}{x}$

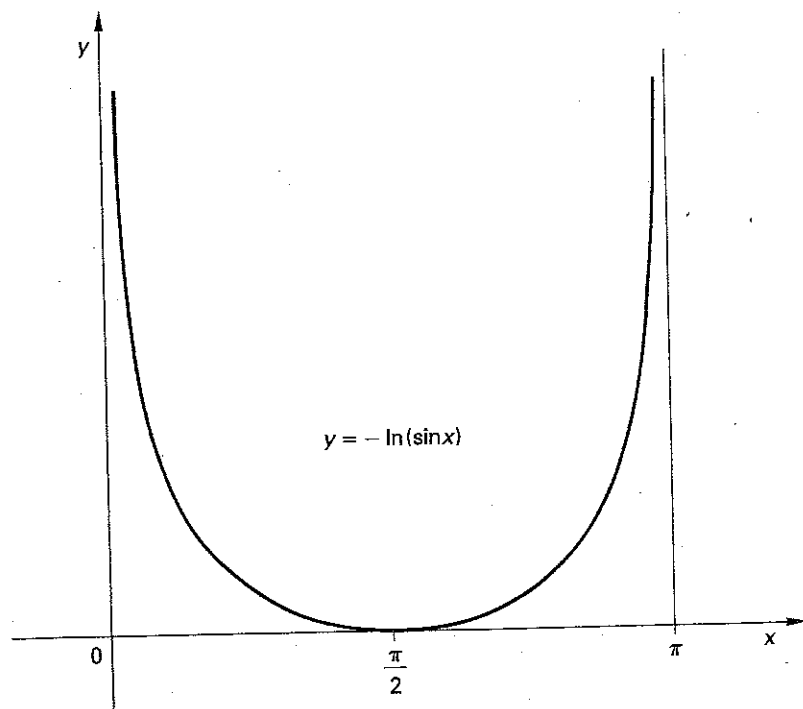
287. Studiare in dipendenza del parametro α
l'andamento delle funzioni

$$f(x) = \log x - \frac{\alpha}{x}$$

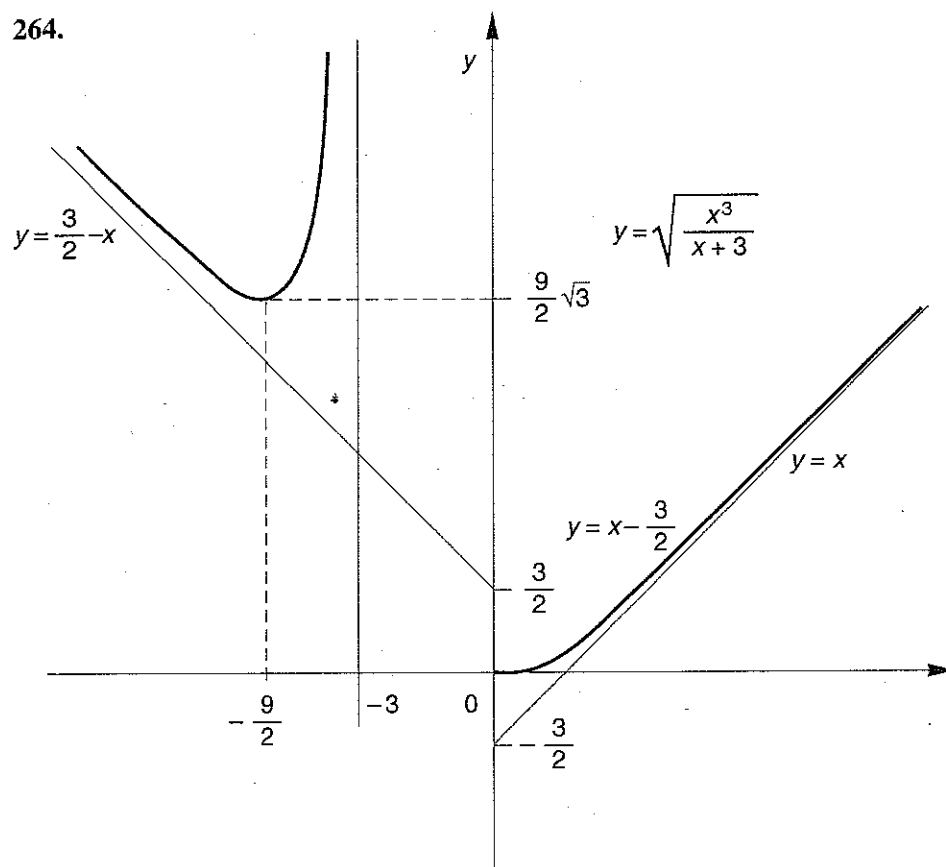
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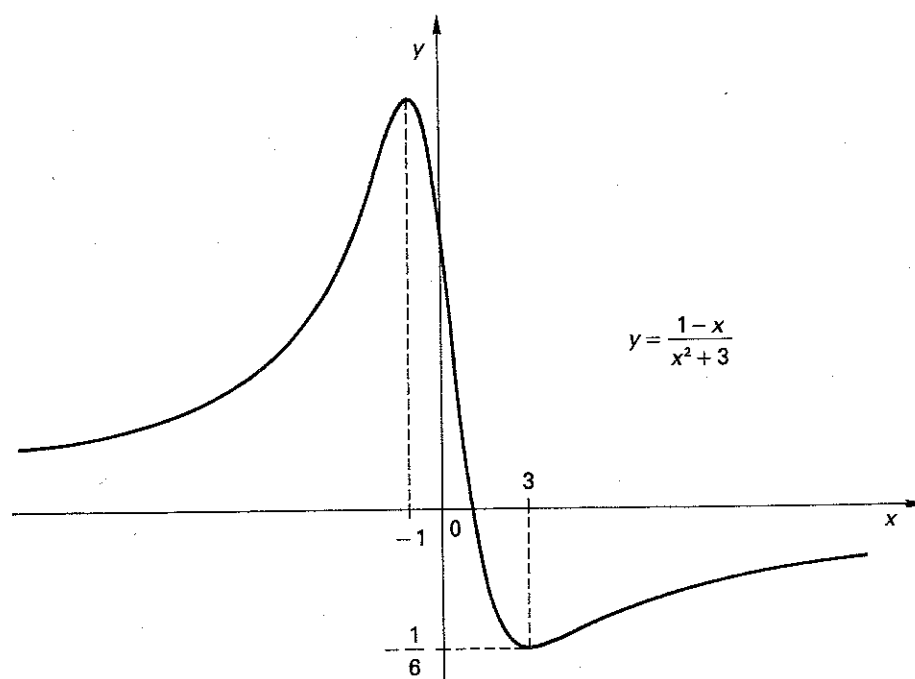
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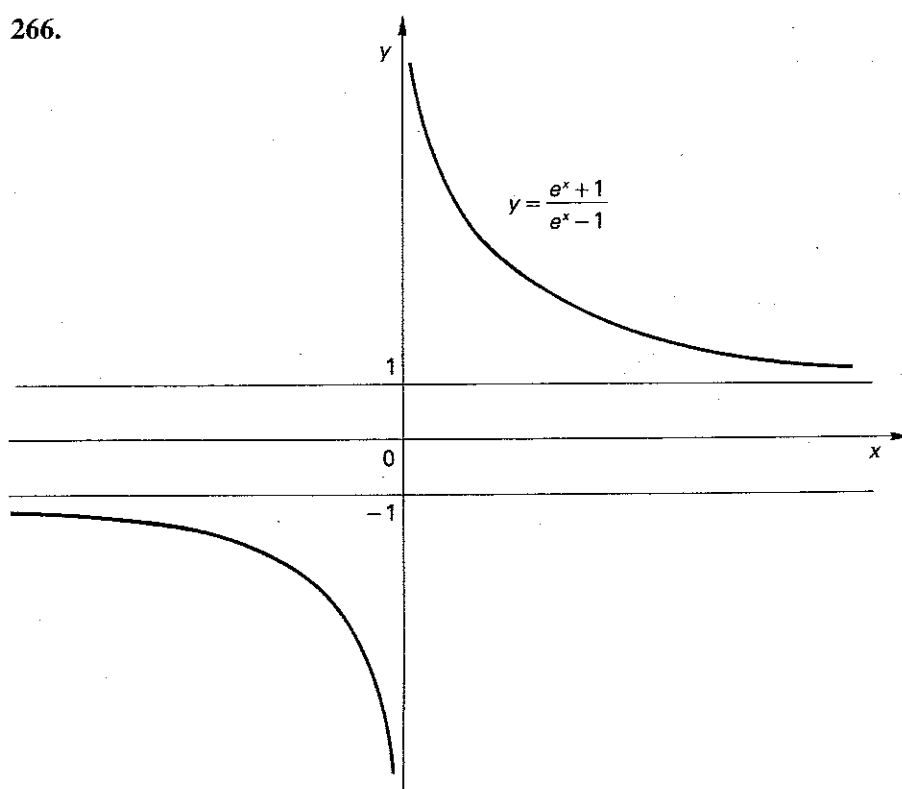
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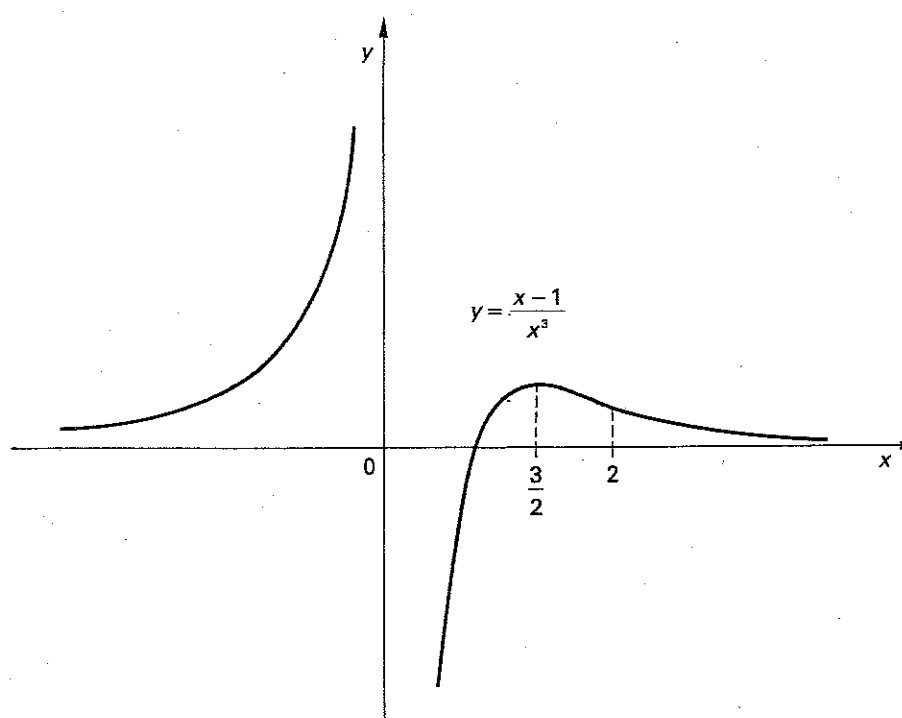
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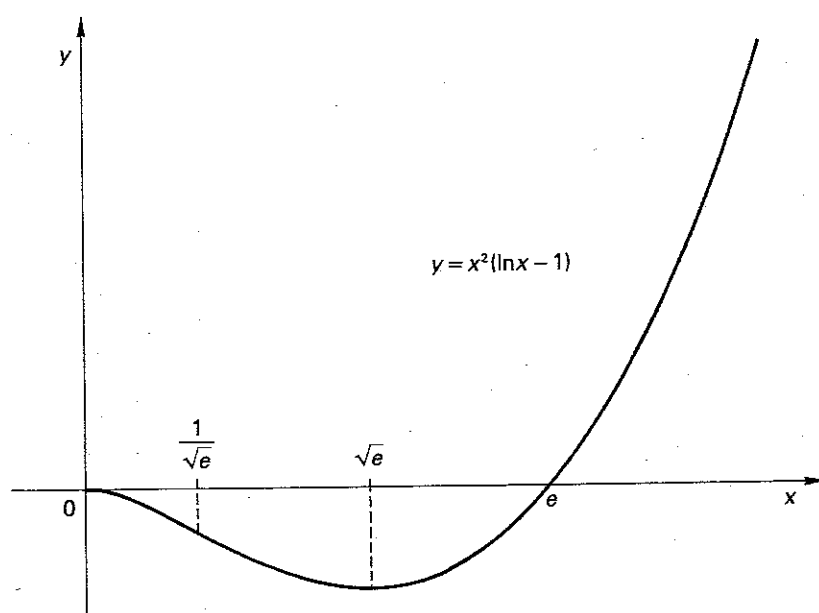
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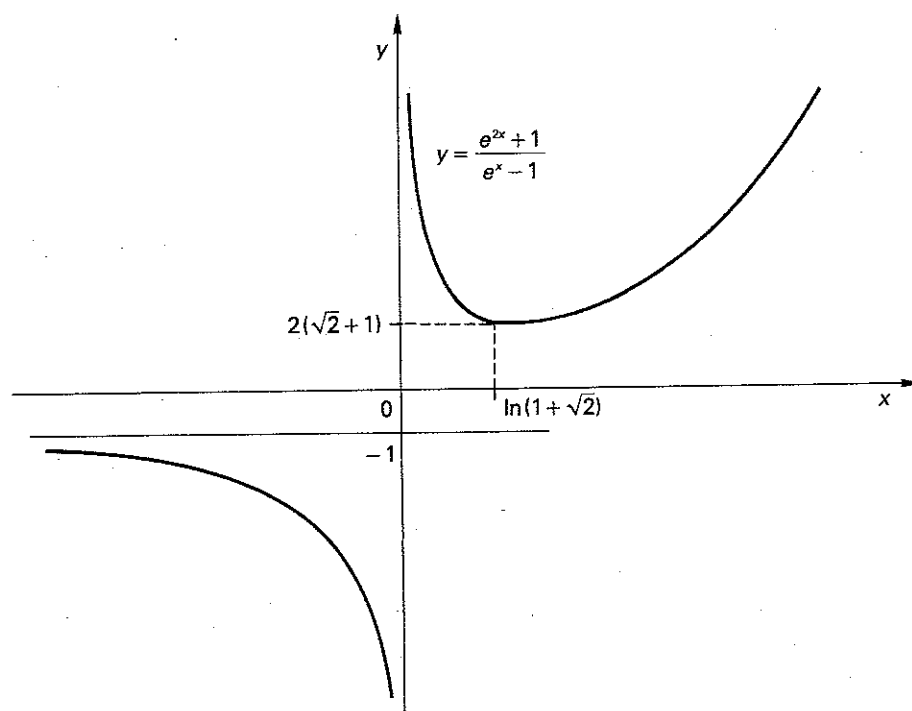
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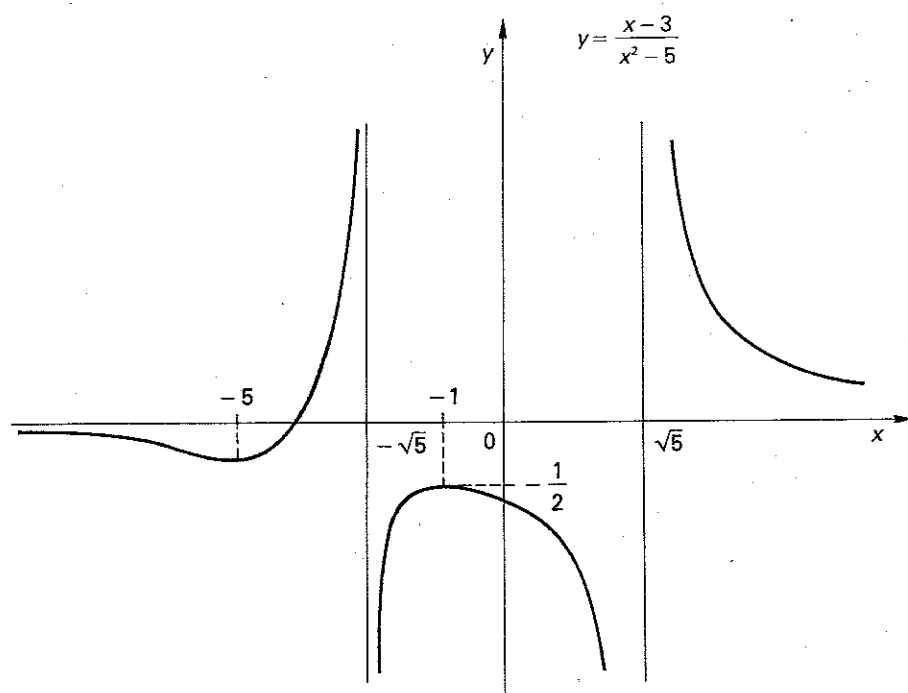
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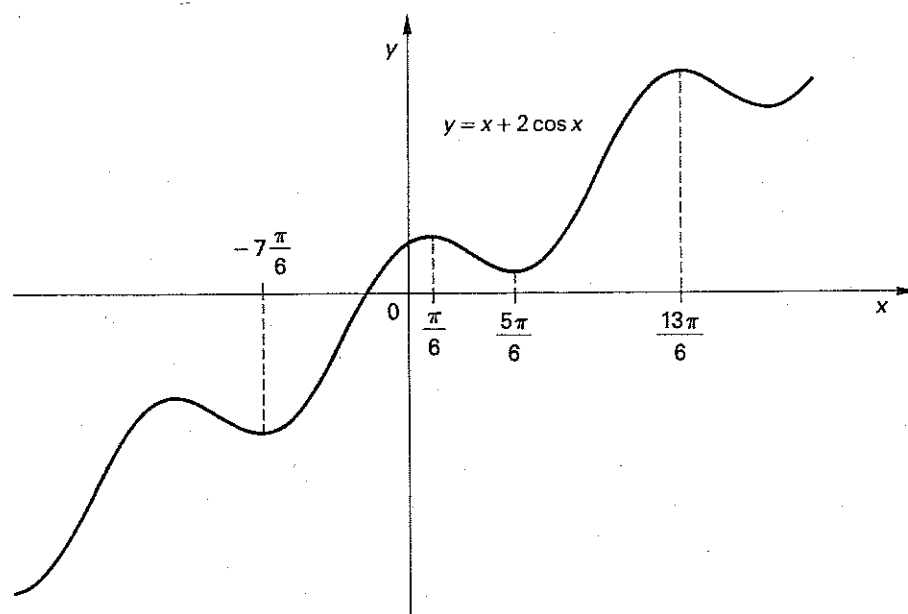
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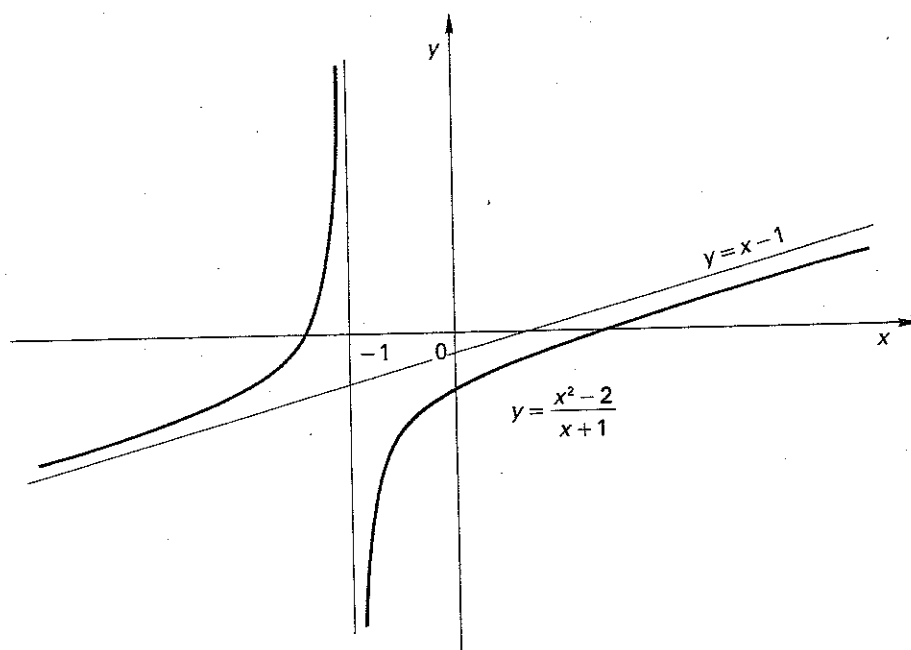
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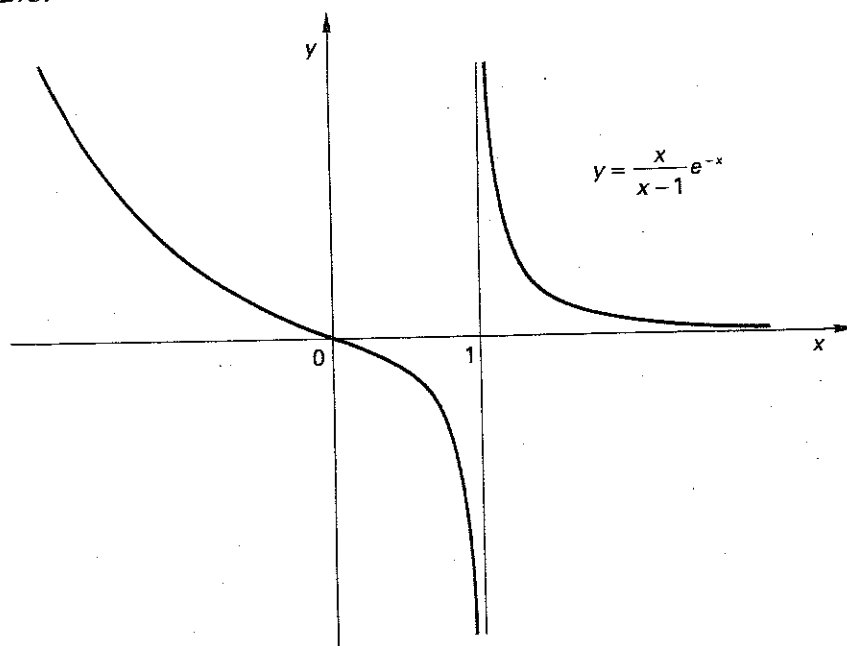
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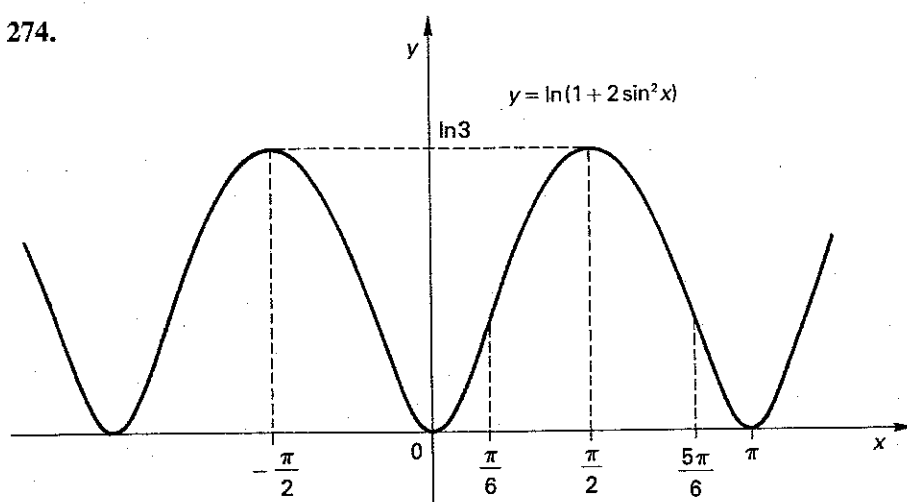
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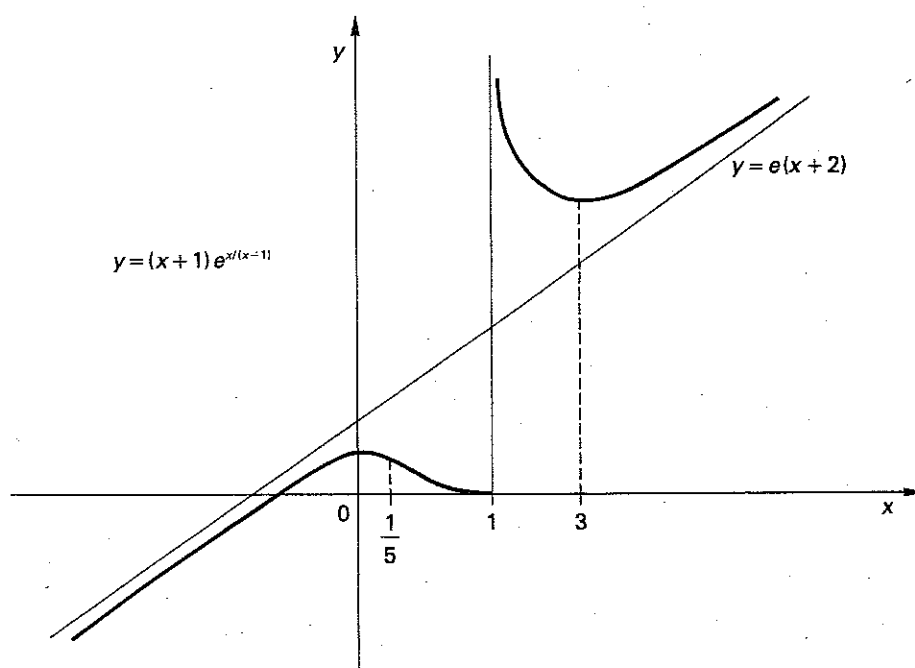
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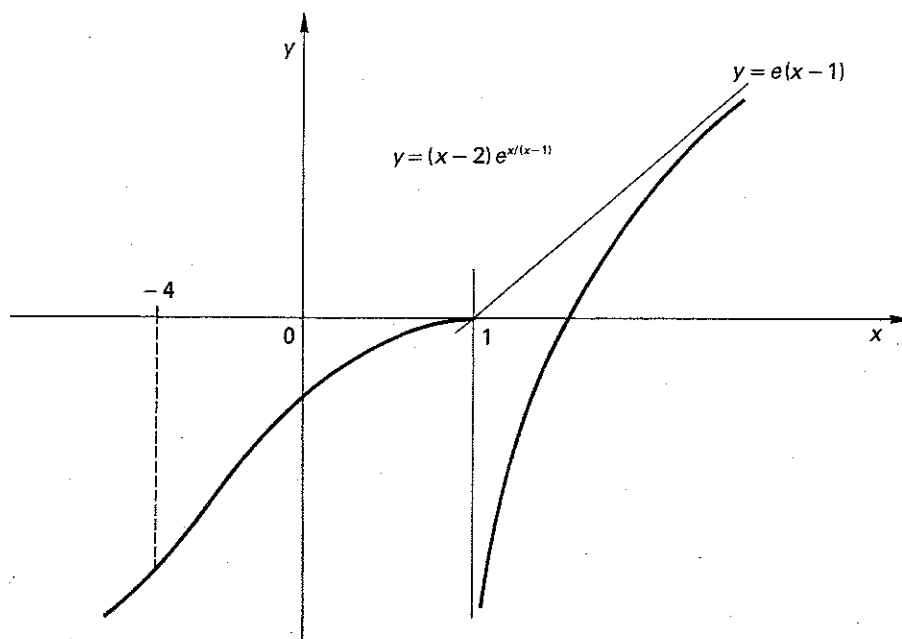
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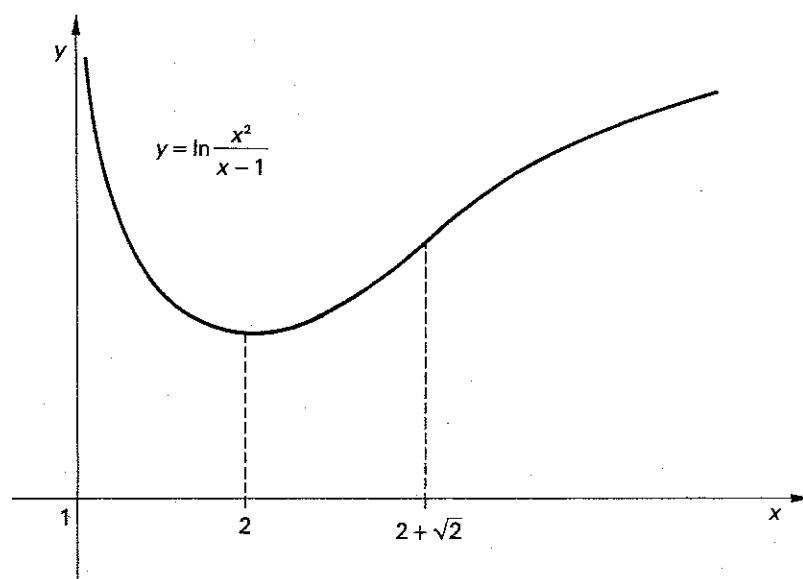
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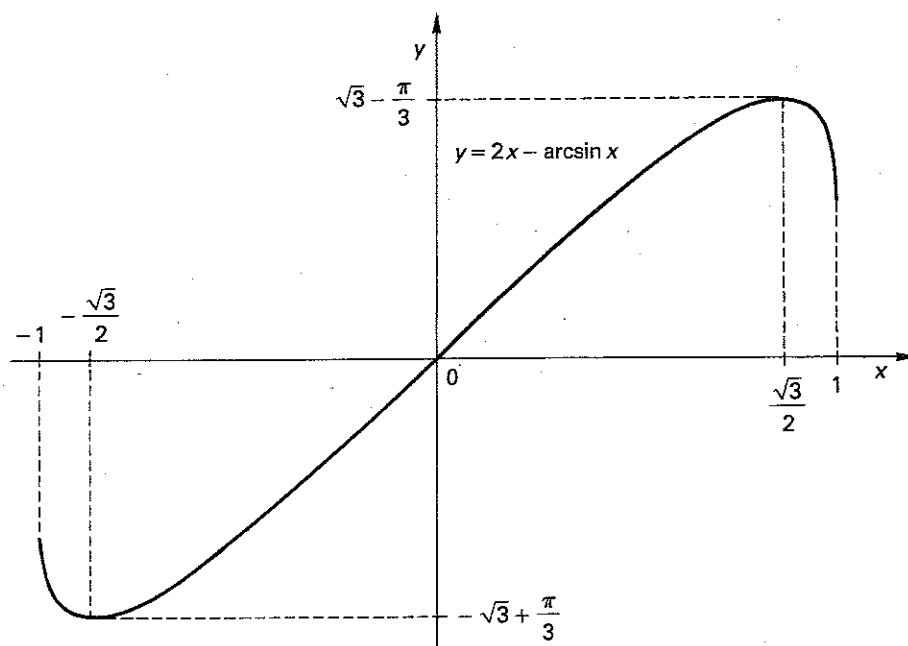
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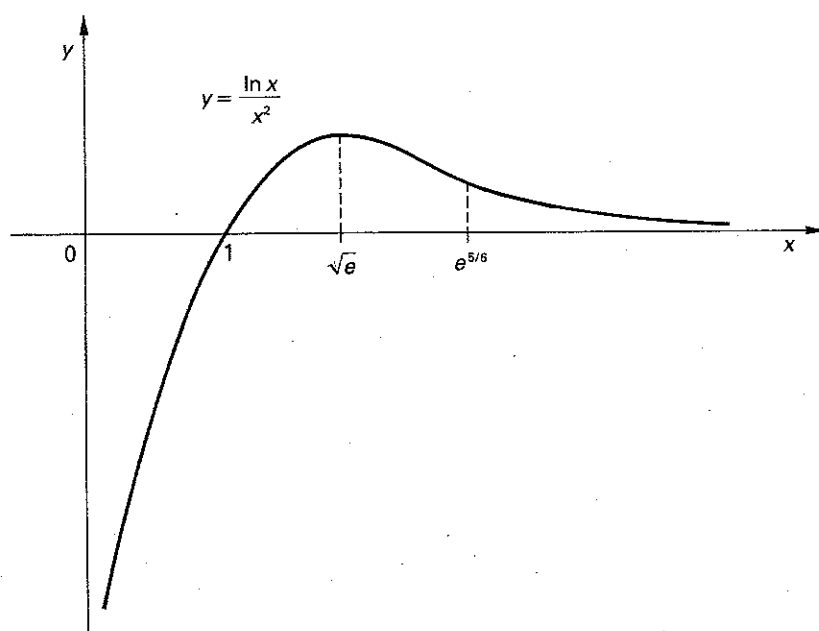
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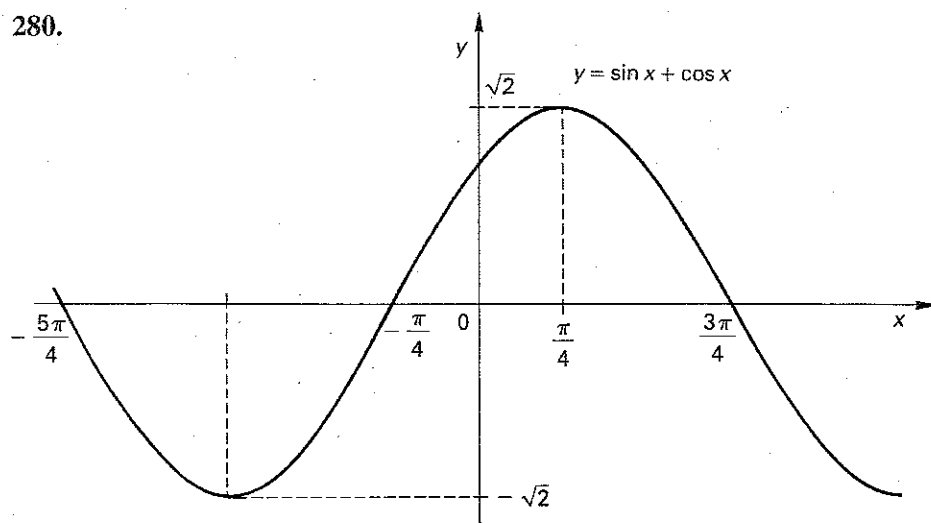
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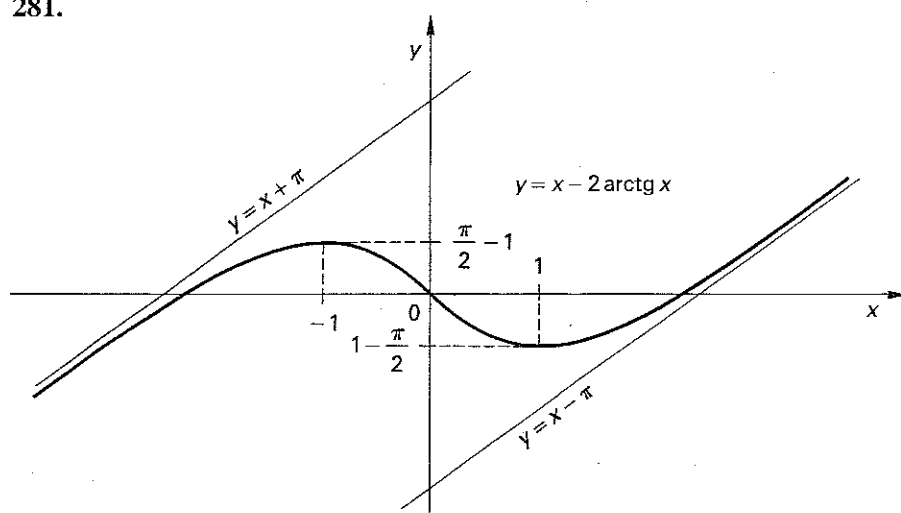
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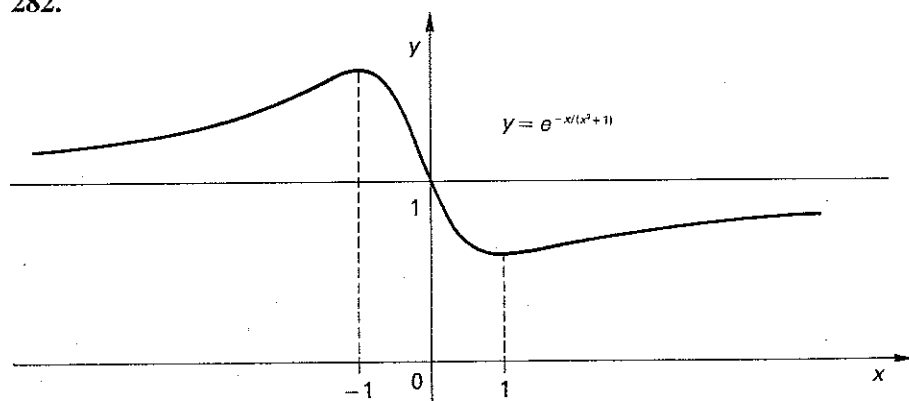
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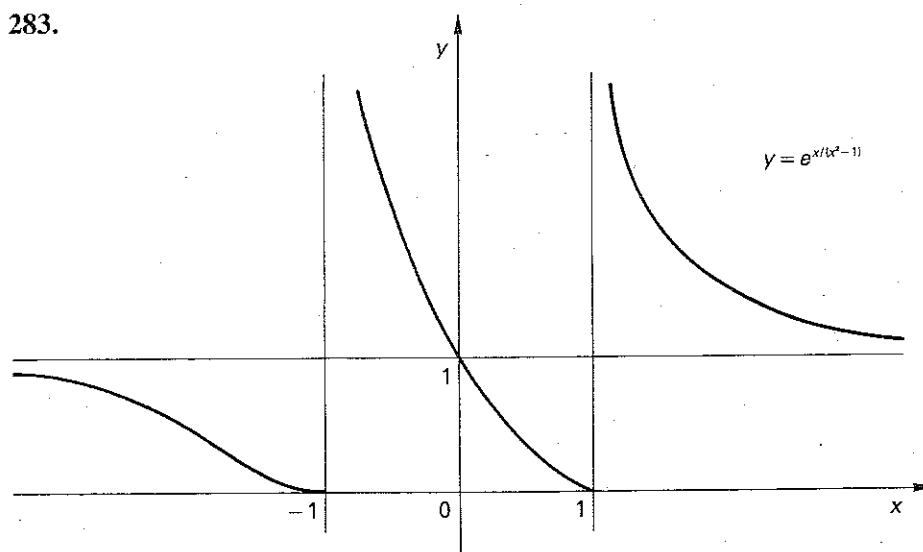
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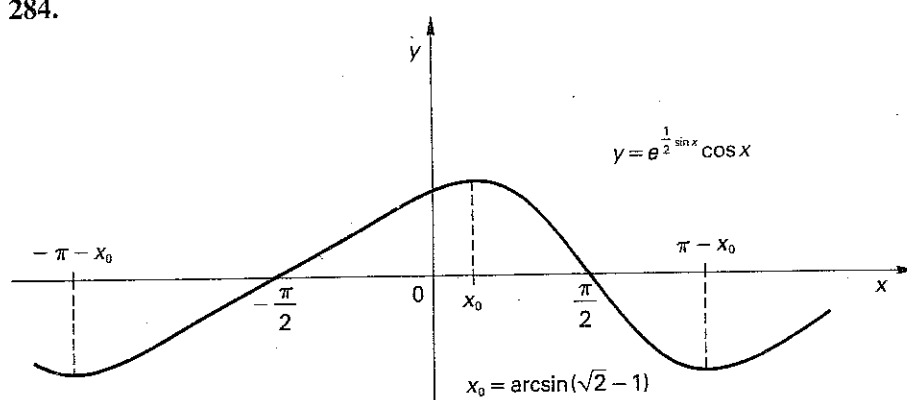
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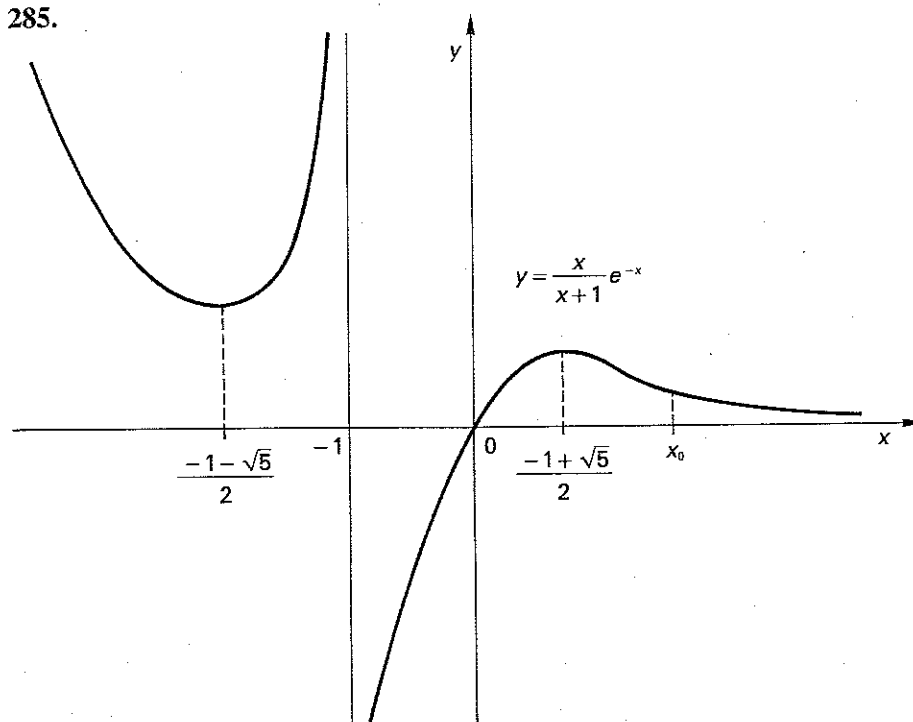
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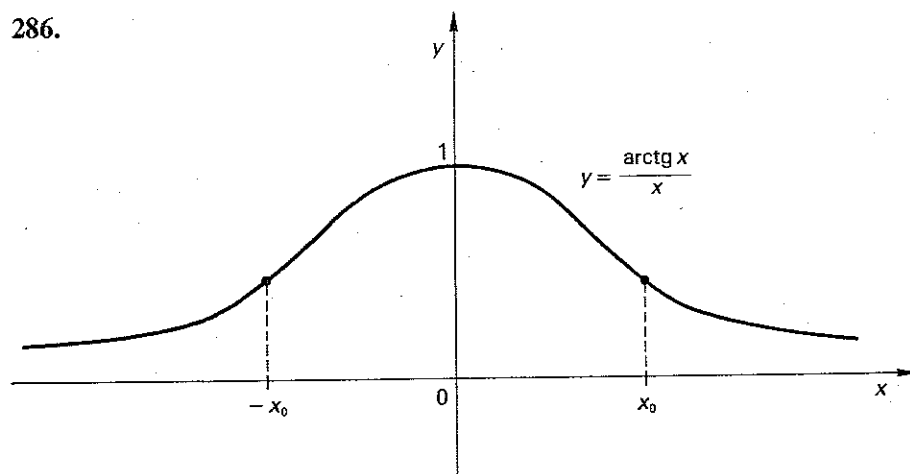
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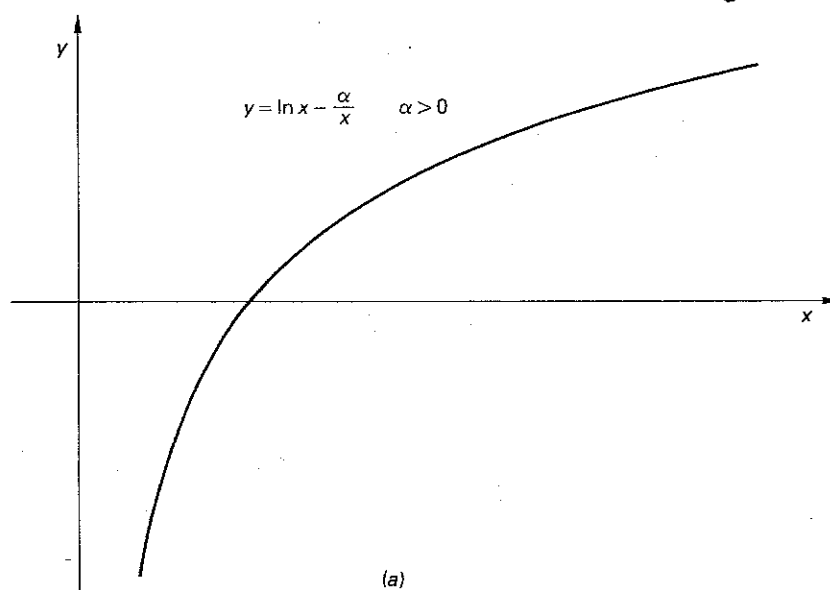
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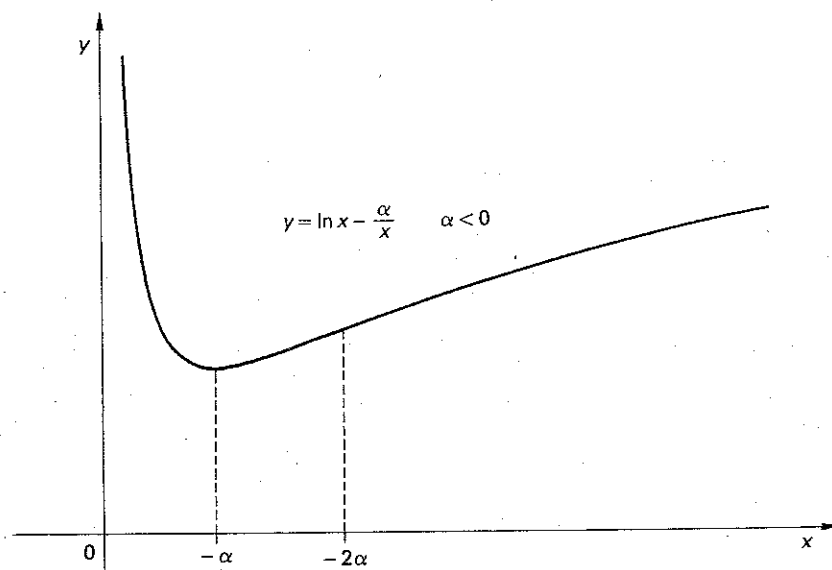
286.



287.



(a)



(b)