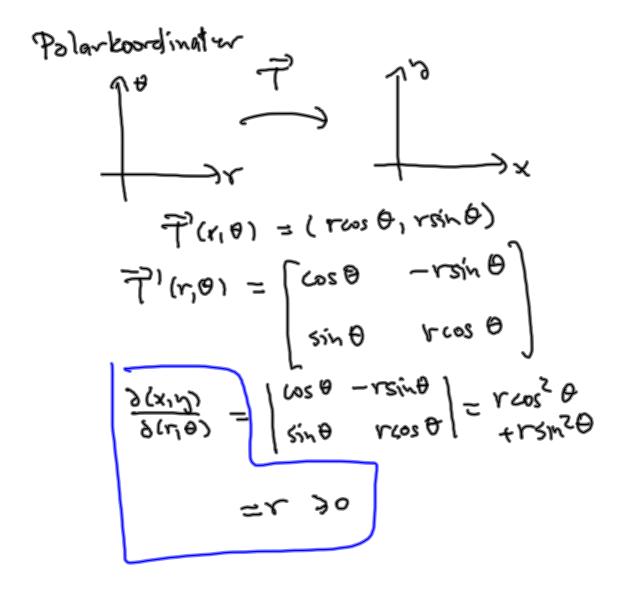
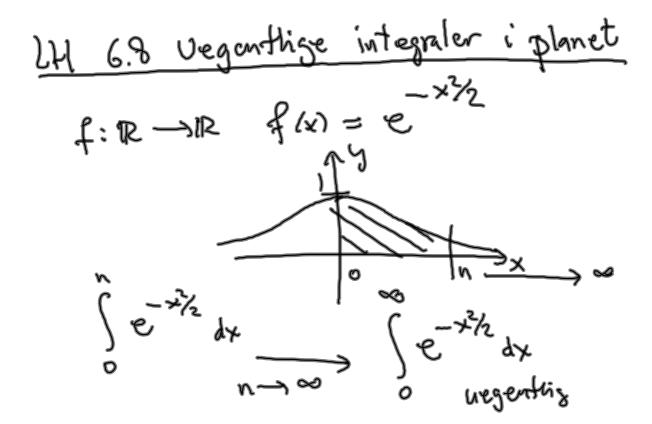


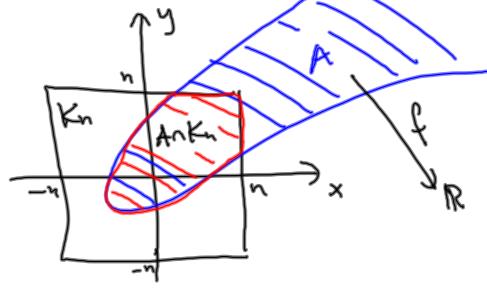
$$\frac{1}{2} \frac{1}{2} \frac{1}$$





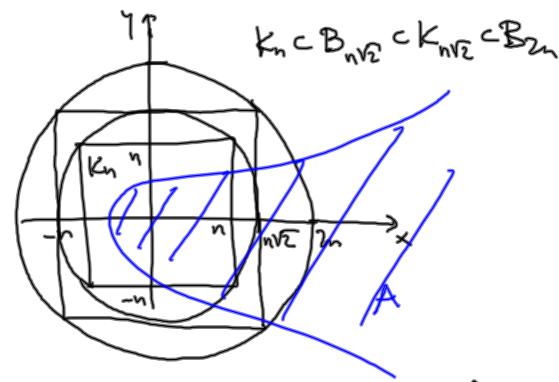
$$K_{N} = [-N,N] \times [-N,N]$$

$$B_{N} = B(0,N) = \{(x,y) \mid x^{2} + y^{2} \leq n^{2} \}$$



Hvis f(x,y) >0 (f er ikke-negativ)
definerar vi

his grenson eksisterer.



KnaA < BnrznA < KnrznA < BznnA
f30

 $\iint f(x_i,y) dxdy \leq \iint f(x_i,y) dxdy$ $\lim_{n \to \infty} A$

< SS fluigh dxdy < SS fluigh dxdy
RenA

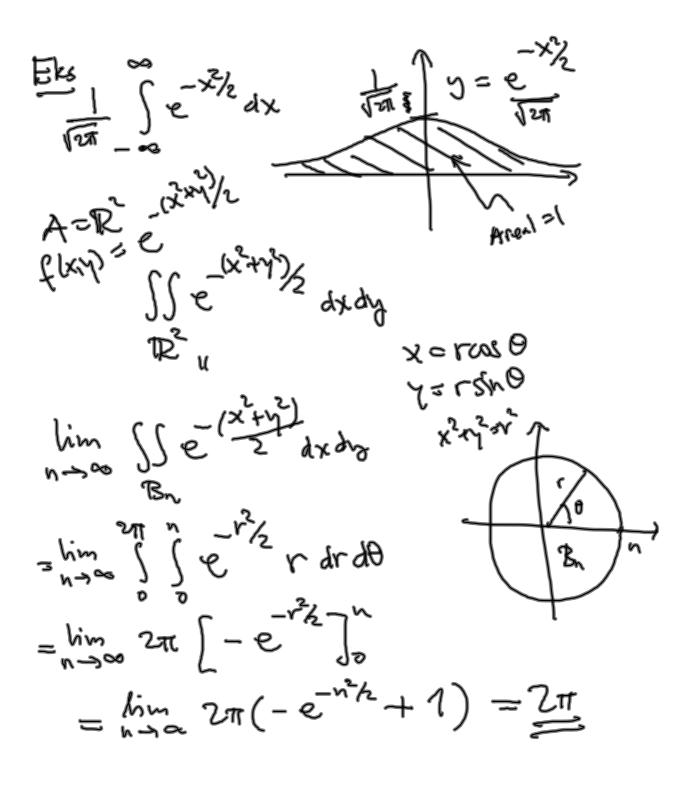
BenA

His Sfering dray = lim Sfering axay

Komenderer (<0)

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La
$$I_n = \int_{-\infty}^{\infty} e^{-x^2/2} dx$$

$$\int_{-\infty}^{\infty} e^{-x^2/2} dx = \lim_{n \to \infty} \int_{-\infty}^{\infty} e^{-x^2/2} dx = \lim_{n \to \infty}^{\infty} \int_{-\infty}^{\infty} e^{-x^2/2} dx = \lim_{n \to \infty}^{\infty} e^{-x^2/2} dx = \lim_{n \to \infty}^{\infty}$$

Vegentlige integraler a- ildu nød, ikke-ny. f $f(x,y) = f_{+}(x,y) - f_{-}(x,y)$ (f(x,y)) = f+(x,y) + f-(x,y) f+ (x,y) = { fxy his fxy 20 If I taxad from of lltand from.

If I axad from of lltand from. SSHI drang (LD) $\iint f(x,y) \, dx \, dy = \iint f_{+}(x,y) \, dx \, dy$ $= \iint f_{-}(x,y) \, dx \, dy$