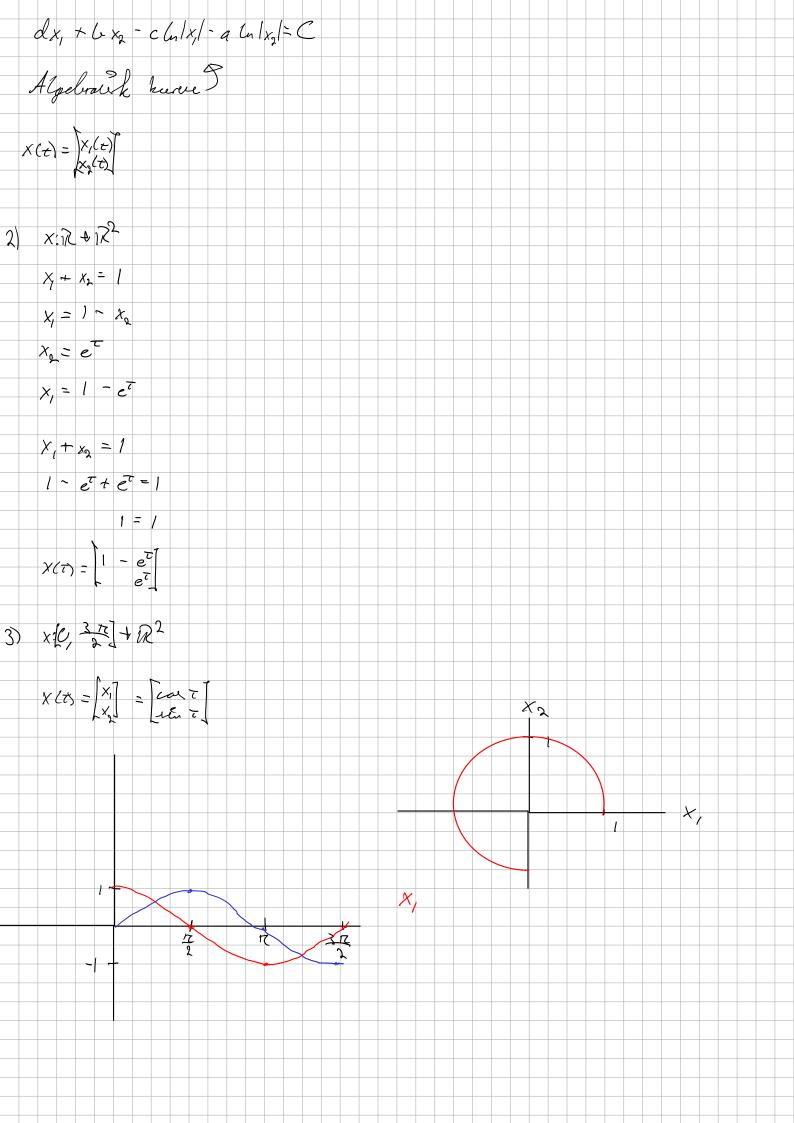
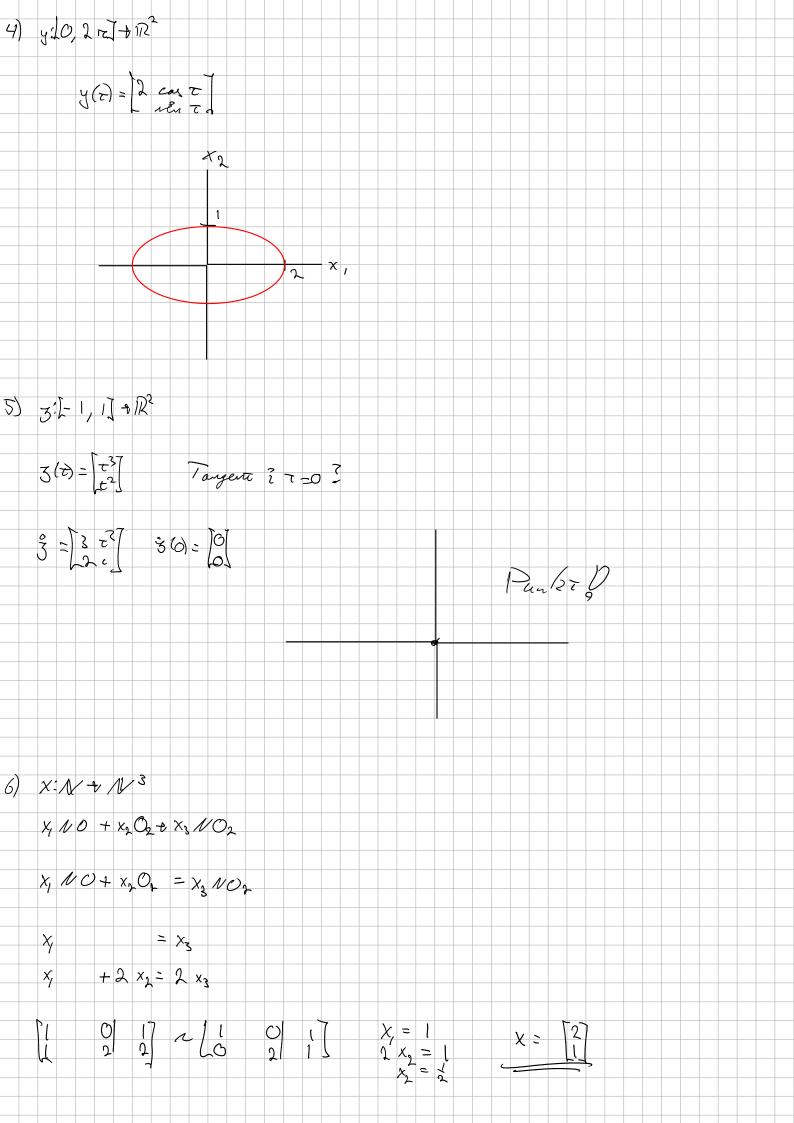
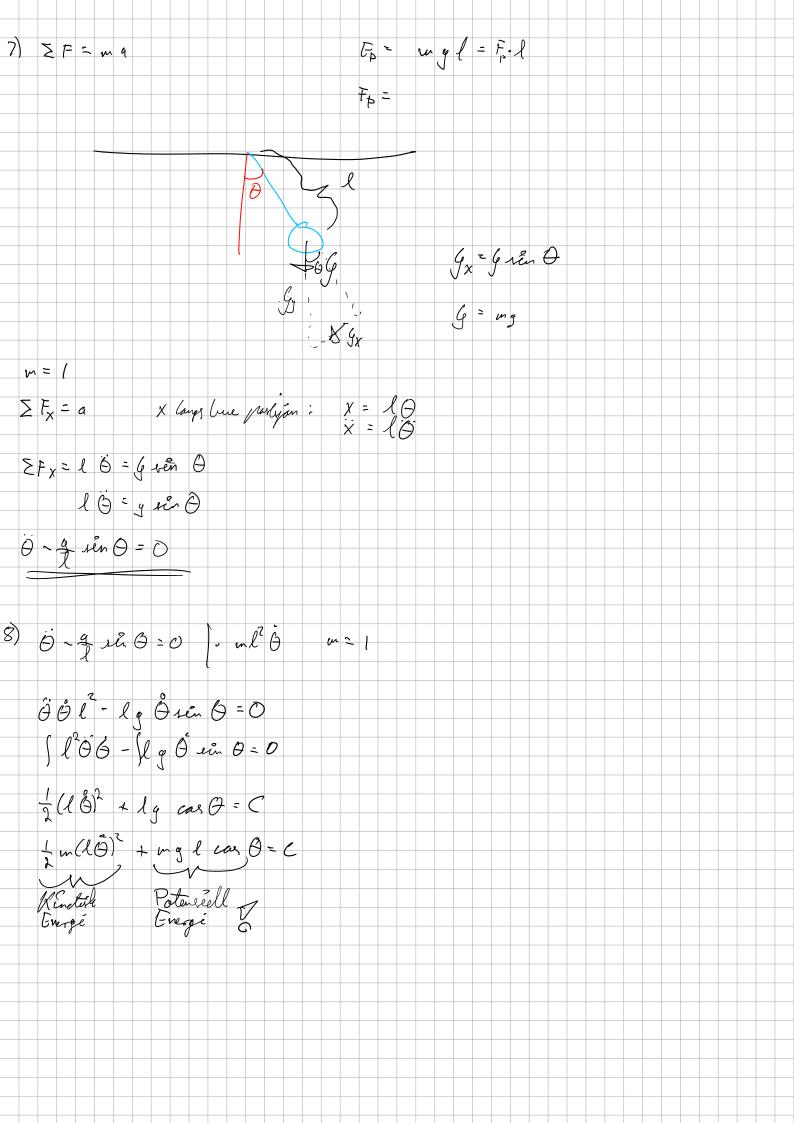
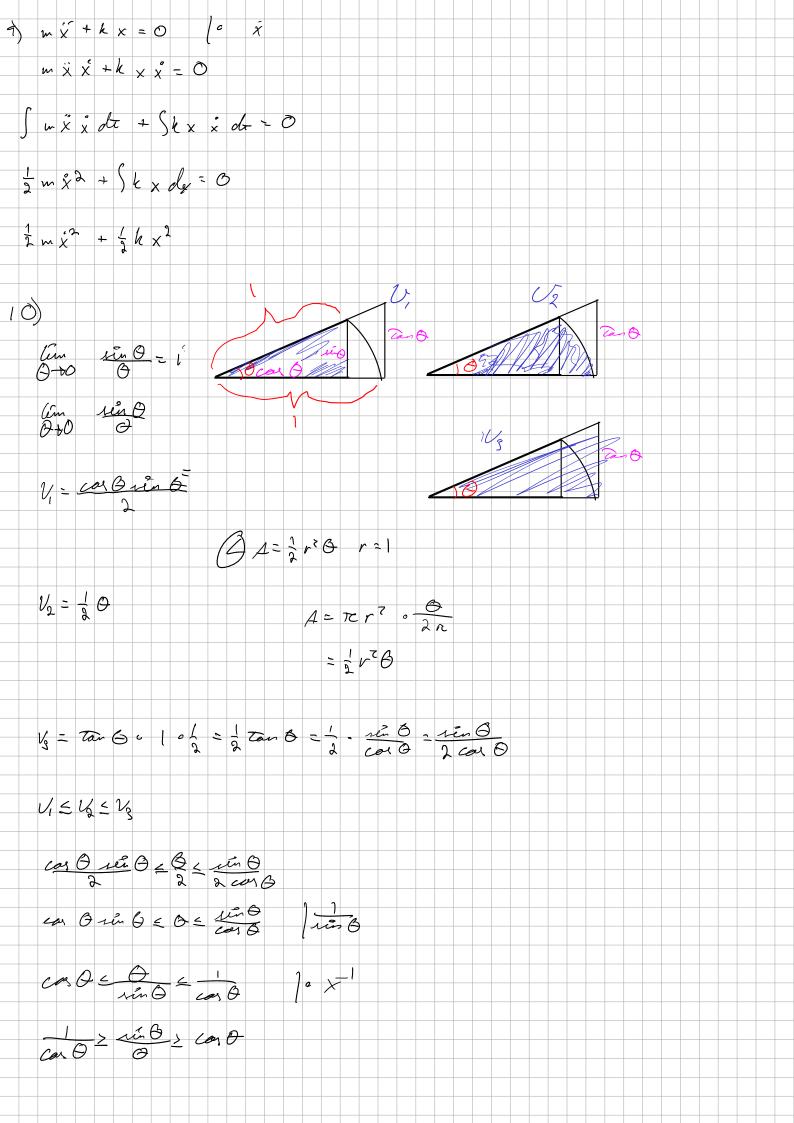
Differentinger 4 8 1)  $\ddot{x}_{i} = a x_{i}$  a > 3X = Harelistend X2 = Gayldiertand  $x_i = a x_i - C x_i x_2$  C > CProportional viel menyden gayer og have Antor att garge hun spire here, vil ly ut when have X<sub>2</sub> = - C X<sub>2</sub>  $\dot{x}_2 = -x_2 + dx_1 x_2$ Troporjand med had og gaypdistenden Total Wanly y tem  $\hat{X}_{1} = \alpha \times_{1} - C \times_{1} \times_{2}$ mar a, b, c, d >0  $x_2 = -C \times_2 + d \times_1 \times_2$ 1)  $\frac{c}{x_1} = \frac{a x_1 - b x_1 x_2}{-c x_2 + d x_1 x_2}$  $\frac{x_1'}{x_2} = \frac{x_1(a - C x_2)}{x_2(-c + dx_1)}$  $x_1 x_2 (-c + dx) = x_1 x_1 (a - b x_2)$  $\stackrel{\circ}{X_1}(-c+dx)$ .  $\stackrel{\downarrow}{X_1}=\stackrel{\circ}{X_2}(a-(-x_2))$ .  $\stackrel{\downarrow}{X_2}$  $-Cx, \circ x_1 + dx, = ax_2 \circ x_2 - cx_2$ 5 - Cx, - tole + 5 dx, = 5 a x2 - 1 de - 5 6x2  $-C\int \frac{1}{x_1} dx_1 + dx + C_1 = a\int \frac{1}{x_2} dx_2 - Cx_2 + C_2$ - Clarx, + dx, + C, = a la 1 x/ - 6 x2 + C2 dx, + 6 x2 - c (n/x/- a (n/x2/= C









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$$\theta = 1$$

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$$\begin{array}{l} \overrightarrow{x} + \mu(x^{2} - 1) \times + x = 0 \\ \overrightarrow{x}_{1} = x \\ \overrightarrow{x}_{2} = x \\ \overrightarrow{x}_{3} = -\mu(x^{2} - 1)x_{2} - x_{1} \\ \overrightarrow{x}_{4} = -\mu(x^{2} - 1)x_{2} - x_{1} \\ \overrightarrow{x}_{5} = -\mu(x^{2} - 1)x_{2} - x_{1} \\ \overrightarrow{x}_{6} = -\mu(x^{2} - 1)x_{2} - x_{1} \\ \overrightarrow{x}_{1} = x_{1} + \frac{h}{2}(f(x_{1}) + f(x_{1} + h)f(x_{2})) \\ \overrightarrow{x}_{1} = x_{1} + \frac{h}{2}(f(x_{1}) + f(x_{1} + h)f(x_{2})) \\ \overrightarrow{x}_{2} = x_{1} + \frac{h}{2}(f(x_{1}) + x_{2} + \frac{h}{2}(f(x_{1}) + f(x_{2} + h)f(x_{2})) \\ \overrightarrow{x}_{1} = x_{1} + \frac{h}{2}(f(x_{1}) + f(x_{2} + h)f(x_{2} + h)f(x_{2} + h) \\ \overrightarrow{x}_{2} = x_{1} + \frac{h}{2}(f(x_{1}) + 2f(x_{2} + h)f(x_{2} + h)$$

$$X_{n+1} = X_n + \sum_{k=1}^{N_{n+1}} \frac{1}{k!} (X^k)^k dx$$

$$X_{n+1} = X_n + \frac{X_{n+1} - X_n}{k!} (X^k)^k + \frac{1}{k!} (X^k - X^n)^k + \frac{1}{k!} (X_n)^k + \frac{1}{k!} (X_n)^k$$

