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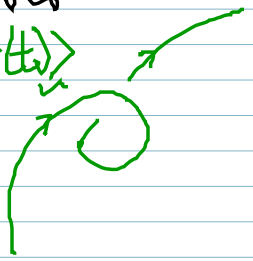
Parametriserede kurver

$\underline{r}(t) = \langle x(t), y(t), z(t) \rangle$

$x(t)\underline{i} + y(t)\underline{j} + z(t)\underline{k}$



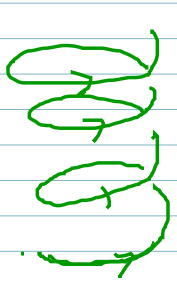
hastighedsvektor

$\underline{v}(t) = \underline{r}'(t) = \langle x'(t), y'(t), z'(t) \rangle$

fart $v(t) = |\underline{v}(t)|$

$\underline{a}(t) = \underline{r}''(t)$ $\quad a(t) = |\underline{a}(t)|$

Eks: $\underline{r}(t) = \langle 2\cos(t), 2\sin(t), 4t \rangle$



$\underline{r}'(t) = \langle -2\sin t, 2\cos t, 4 \rangle$

$v(t) = \sqrt{4\sin^2 t + 4\cos^2 t + 16}$

$= \sqrt{20}$

$\underline{a}(t) = \langle -2\cos t, -2\sin t, 0 \rangle$

$a(t) = |\underline{a}(t)| = 2$

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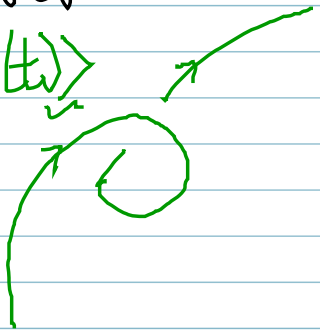
Parametriserede kurver

$\underline{r}(t) = \langle x(t), y(t), z(t) \rangle$

$x(t)\underline{i} + y(t)\underline{j} + z(t)\underline{k}$



hastighedsvektor

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fart $v(t) = |\underline{v}(t)|$

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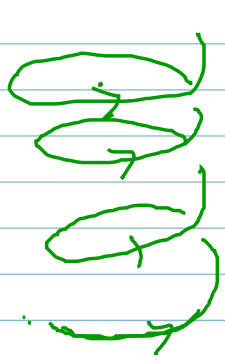

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