

Vejledende løsning - MAT 14

Del 1: Kun med formelsamling

Opgave 1

En ret linje l er givet ved parameterfremstillingen $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 2 \\ -3 \end{pmatrix} + t \cdot \begin{pmatrix} 3 \\ 1 \end{pmatrix}$.

a) Bestem koordinatsættet for punktet på linjen l , når parameterværdien er $t = 5$.

Vi indsætter $t = 5$ i parameterfremstillingen:

$$\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 2 \\ -3 \end{pmatrix} + 5 \cdot \begin{pmatrix} 3 \\ 1 \end{pmatrix} = \begin{pmatrix} 2 + 5 \cdot 3 \\ -3 + 5 \cdot 1 \end{pmatrix} = \begin{pmatrix} 2 + 15 \\ -3 + 5 \end{pmatrix} = \begin{pmatrix} 17 \\ 2 \end{pmatrix}.$$

Punktet på linjen l svarende til parameterværdien $t = 5$ er $(17, 2)$.

Opgave 2

Linjen l går gennem punkterne $A(-1, 2)$ og $B(5, 26)$.

a) Bestem en parameterfremstilling for l .

Parameterfremstillingen er på formen $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} x_0 \\ y_0 \end{pmatrix} + t \cdot \begin{pmatrix} r_1 \\ r_2 \end{pmatrix}$, hvor (x_0, y_0) er et punkt på linjen, og

$\vec{r} = \begin{pmatrix} r_1 \\ r_2 \end{pmatrix}$ er en retningsvektor for linjen.

Vektoren $\overrightarrow{AB}$ er retningsvektor for linjen: $\overrightarrow{AB} = \begin{pmatrix} 5 - (-1) \\ 26 - 2 \end{pmatrix} = \begin{pmatrix} 6 \\ 24 \end{pmatrix}$. Vi anvender $\frac{1}{6}\overrightarrow{AB}$ som

retningsvektor: $\vec{r} = \frac{1}{6}\overrightarrow{AB} = \frac{1}{6} \begin{pmatrix} 6 \\ 24 \end{pmatrix} = \begin{pmatrix} 1 \\ 4 \end{pmatrix}$.

Parameterfremstillingen er $l: \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} -1 \\ 2 \end{pmatrix} + t \cdot \begin{pmatrix} 1 \\ 4 \end{pmatrix}$.

Linjen m står vinkelret på l og går gennem A .

b) Bestem en ligning for m .

Vi skal bestemme en ligning for m på formen $a(x - x_0) + b(y - y_0) = 0$, hvor $\vec{n} = \begin{pmatrix} a \\ b \end{pmatrix}$ er normalvektor for linjen, og (x_0, y_0) er et punkt på linjen.

Da normalvektoren er vinkelret på linjen, og linjen m skal være vinkelret på l , kan vi anvende retningsvektoren for l som normalvektor for m :

$$1(x - (-1)) + 4(y - 2) = 0 \Leftrightarrow x + 1 + 4y - 8 = 0 \Leftrightarrow x + 4y - 7 = 0.$$

Ligningen er $m: x + 4y - 7 = 0$.

Matematik Eksamen December 2014

**Ning de Coninck-Smith, Lisa Rosén
Rasmussen, Iben Vyff**



Matematik Eksamen December 2014:

Da skolen blev alles Ning de Coninck-Smith, Lisa Rosén Rasmussen, Iben Vyff, 2015-06-24 Da skolen blev alles Tiden efter 1970 handler om en periode hvor lommeregneren og computeren kom ind i timerne idr t blev f lles for drenge og piger og lilleskolerne fornyede friskoletraditionen Der kom en ny opmærksomhed på elevernes sociale og etniske baggrund og på deres forskellige udvikling og talenter B rn hverken kunne eller skulle l re det samme på samme tid og elevplaner erstattede skoleskemaet Ambitionen om at rumme langt de fleste elever inden for folkeskolen voksede sig stærkere og omgangstonen blev mere demokratisk Samtidig blev elevråd og forældrevalgte skolebestyrelser en del af skolernes hverdag Der stod megen bl st om skolen perioden igennem fra 1970 ernes indoktrineringsdebat over rtusindeskiftets ønsker om at styrke fagligheden til den l bende diskussion om lærernes arbejdstid Meget forandrede sig mens andet var som før Dansk matematik og historie var fortsat vigtige fag efterh nden suppleret af engelsk Der herskede enighed om at skolen skulle bidrage til elevens personlige udvikling og til lighed v kst og velstand Sp rgsm let var blot hvordan I debatten blandede mange stemmer sig og skolen var ikke l ngere et anliggende kun for eksperter Alle havde en mening **Bogmarkedet** ,1993

The book delves into Matematik Eksamen December 2014. Matematik Eksamen December 2014 is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Matematik Eksamen December 2014, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Matematik Eksamen December 2014
 - Chapter 2: Essential Elements of Matematik Eksamen December 2014
 - Chapter 3: Matematik Eksamen December 2014 in Everyday Life
 - Chapter 4: Matematik Eksamen December 2014 in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Matematik Eksamen December 2014. The first chapter will explore what Matematik Eksamen December 2014 is, why Matematik Eksamen December 2014 is vital, and how to effectively learn about Matematik Eksamen December 2014.
3. In chapter 2, this book will delve into the foundational concepts of Matematik Eksamen December 2014. The second chapter will elucidate the essential principles that need to be understood to grasp Matematik Eksamen December 2014 in its entirety.
4. In chapter 3, this book will examine the practical applications of Matematik Eksamen December 2014 in daily life. The third chapter will showcase real-world examples of how Matematik Eksamen December 2014 can be effectively utilized in everyday scenarios.
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6. In chapter 5, the author will draw a conclusion about Matematik Eksamen December 2014. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Matematik Eksamen December 2014.

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