BBI WIEN

Vektoren in 'R^2 - Grundlagen

Einige Schwarzdruckkopiervorschläge mit großer Schrift und starken Linien

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Inhalt: verschiedene Vektoren, parallele Vektoren, Normalvektoren, Vektoraddition, Vektorsubtraktion, Vektoren in diversen Vierecken, Multiplikation einer Vektors mit einer Zahl, Skalarprodukt

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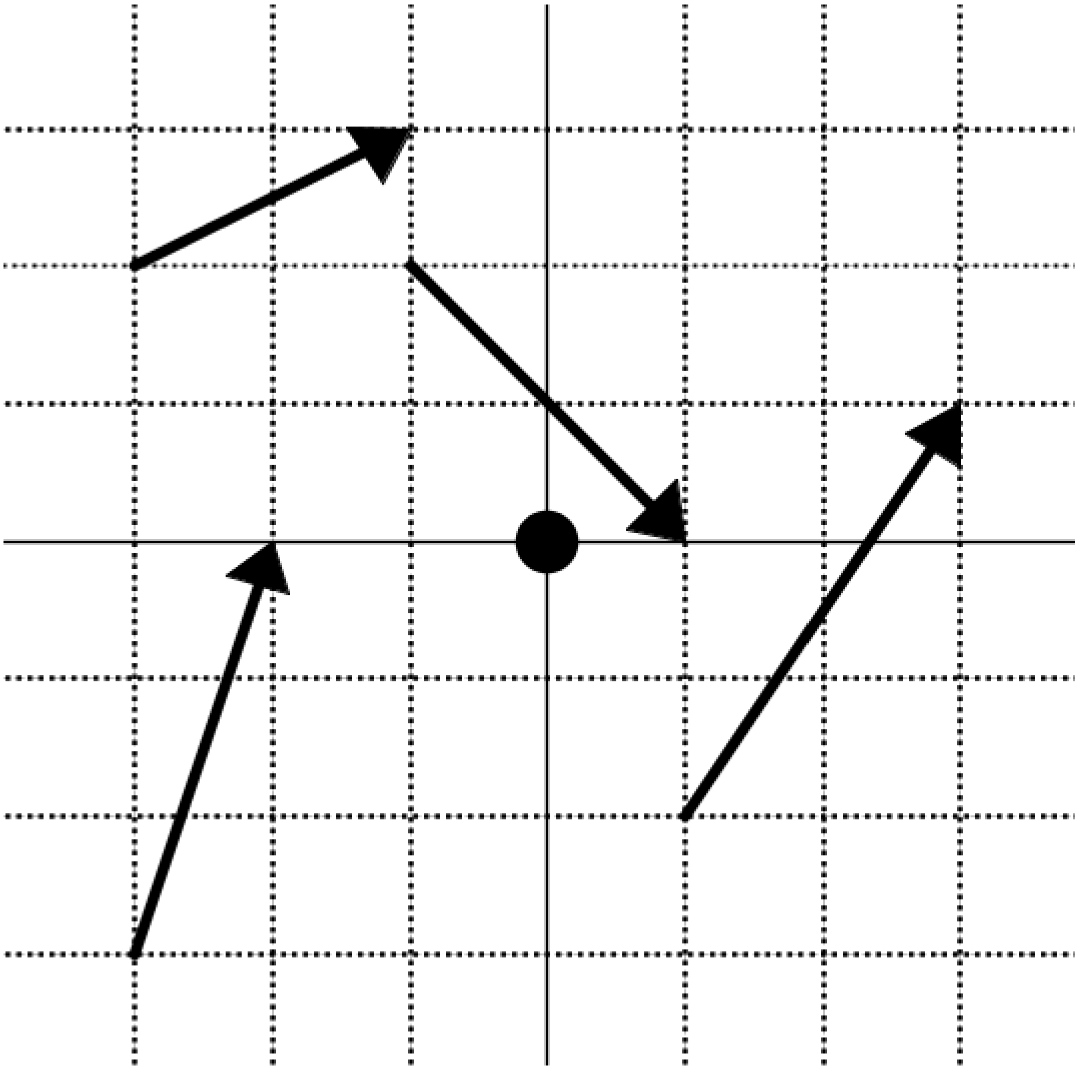
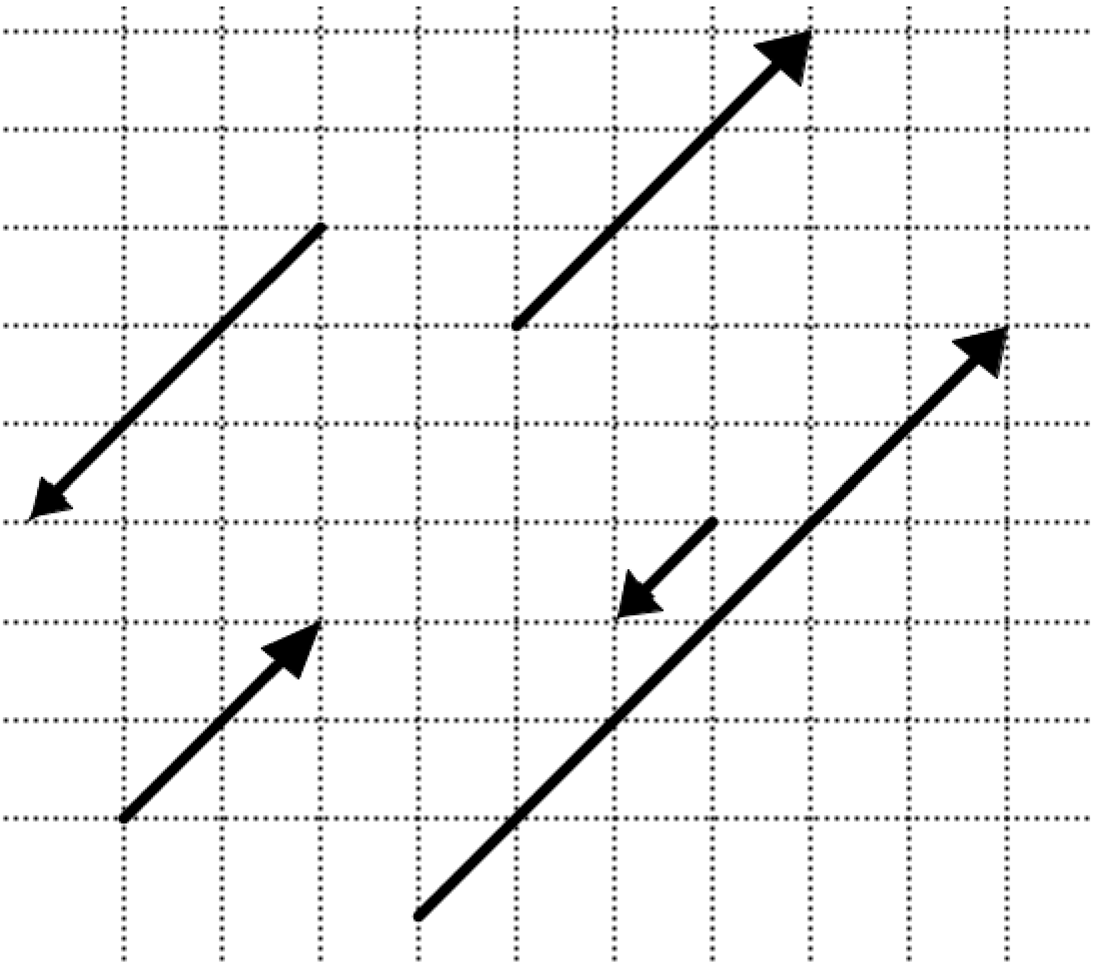
Verschiedene Vektoren



Parallele Vektoren:

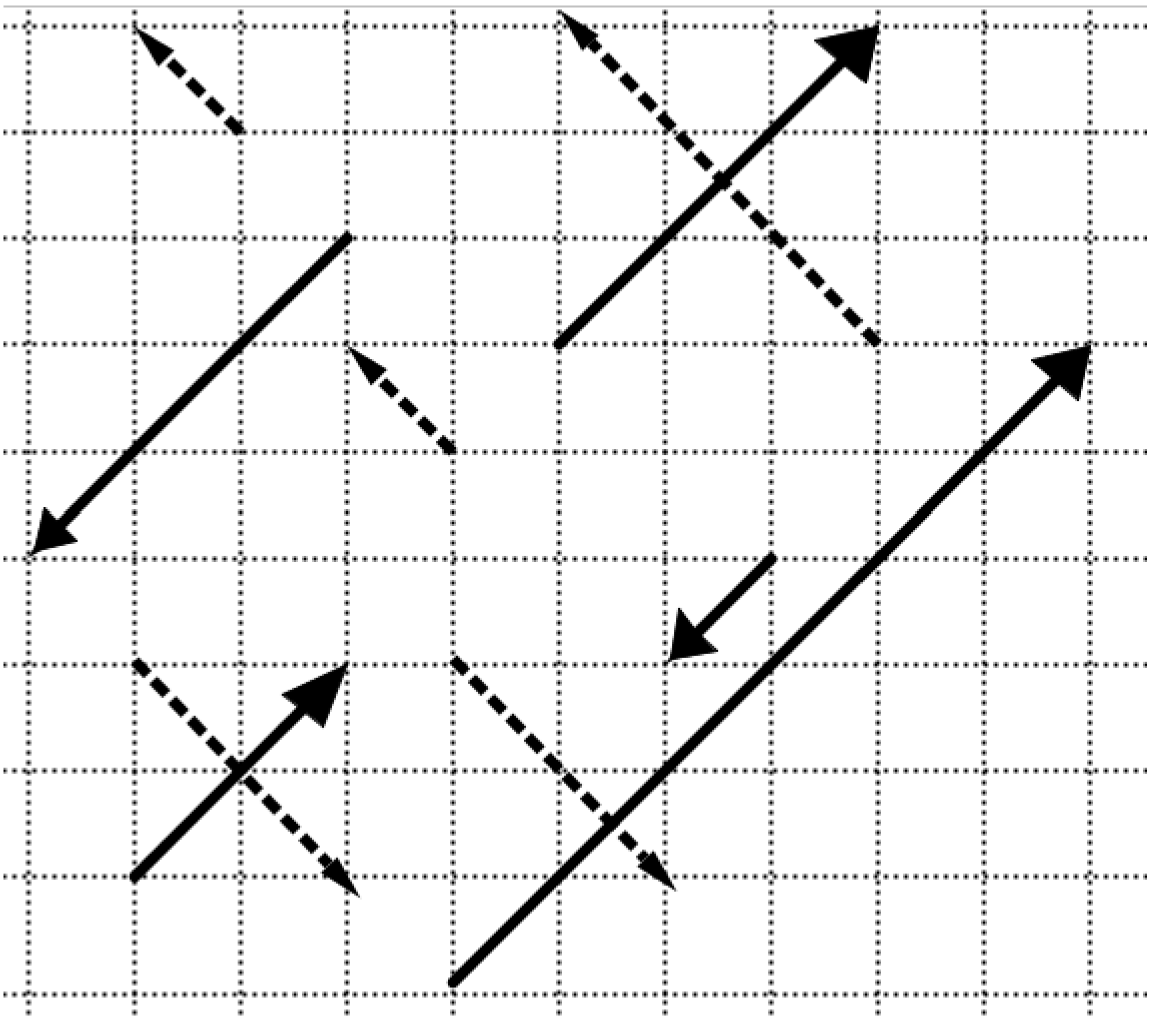
gleich- oder

entgegengesetzt gerichtet



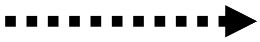
Vektoren:

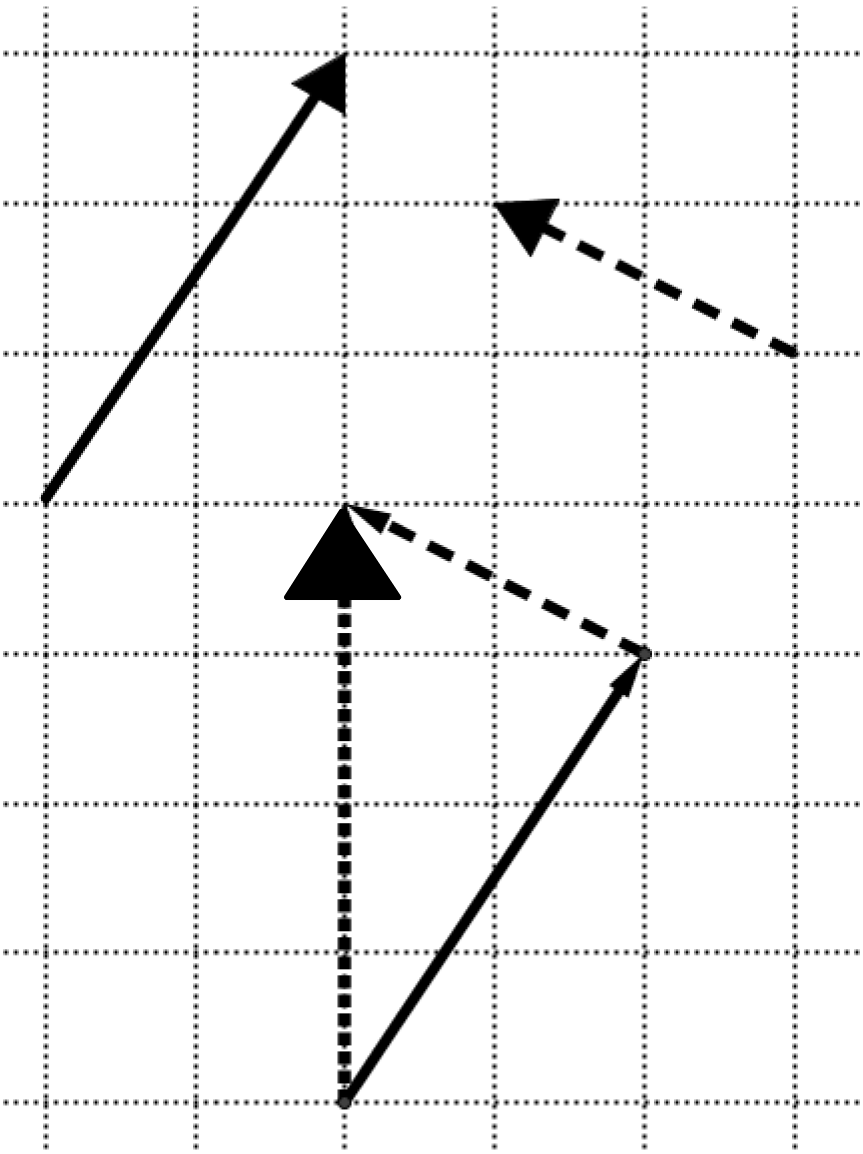
Normalvektoren dazu:



Vektoraddition

'va:  || 'vb: 

'va +'vb ='vc: 

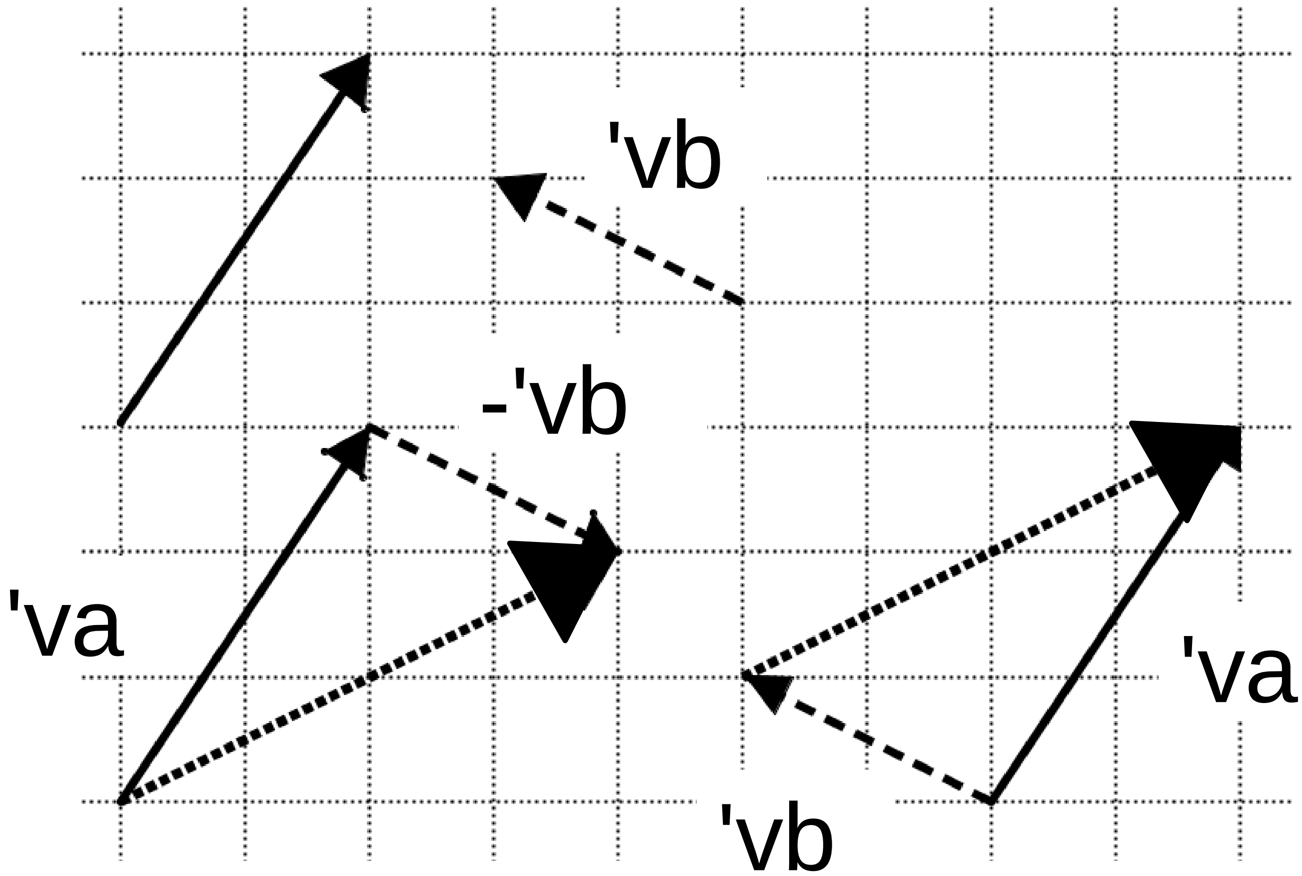


Vektorsubtraktion

'va: || 'vb:

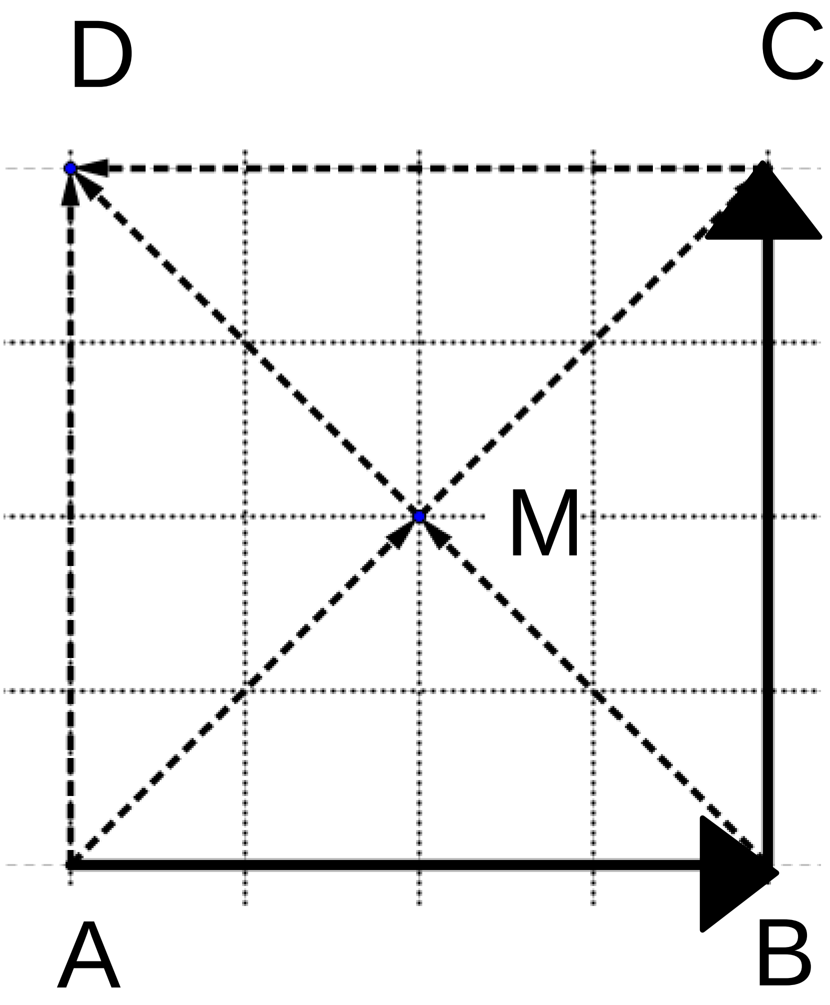
'vc:

'vc ='va +(-'vb) ='va -'vb



Quadrat: Geg. A, B, C

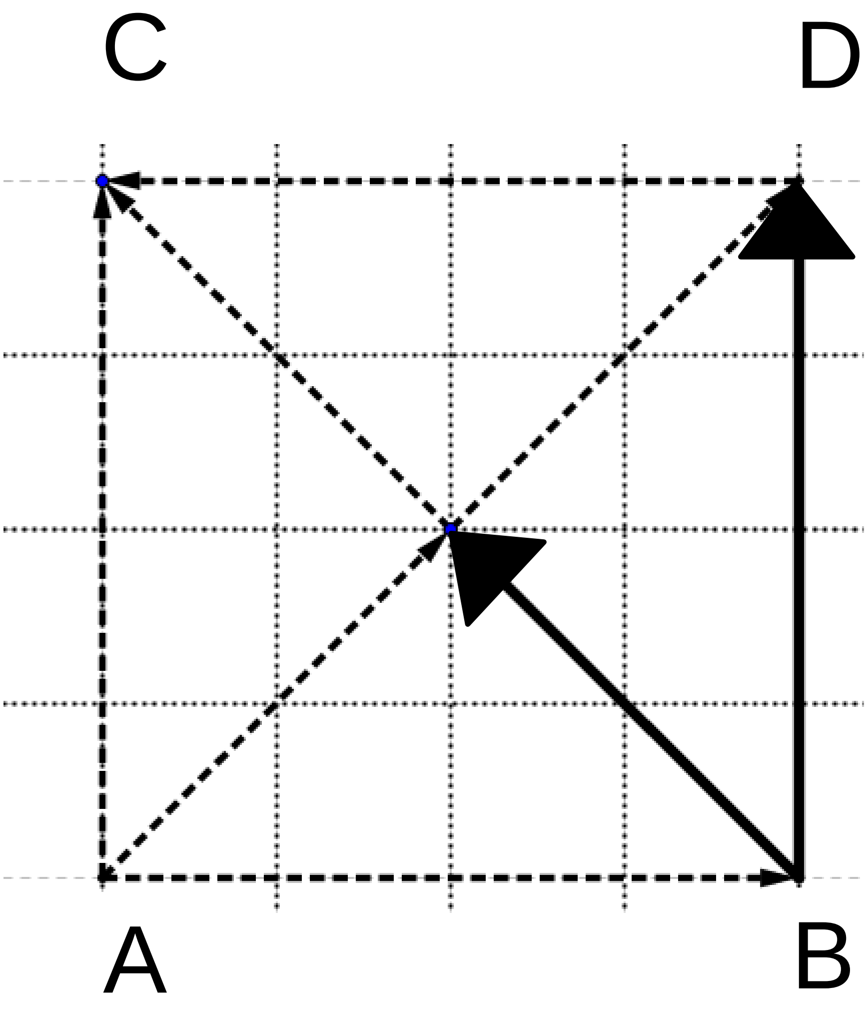
Ges: D, M



Quadrat:

Geg. B, M, 'vBC,

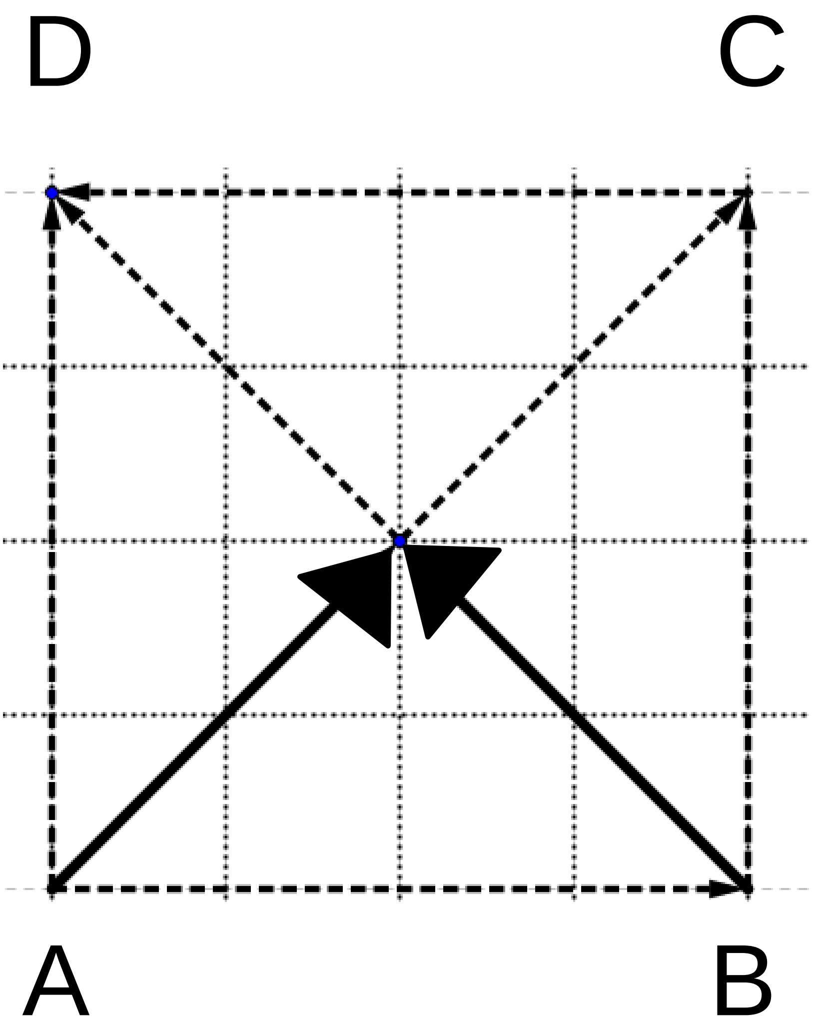
Ges: A, D



Quadrat:

Geg. A, 'vAM, 'vBM

Ges: C, D



Vektoren in R^2

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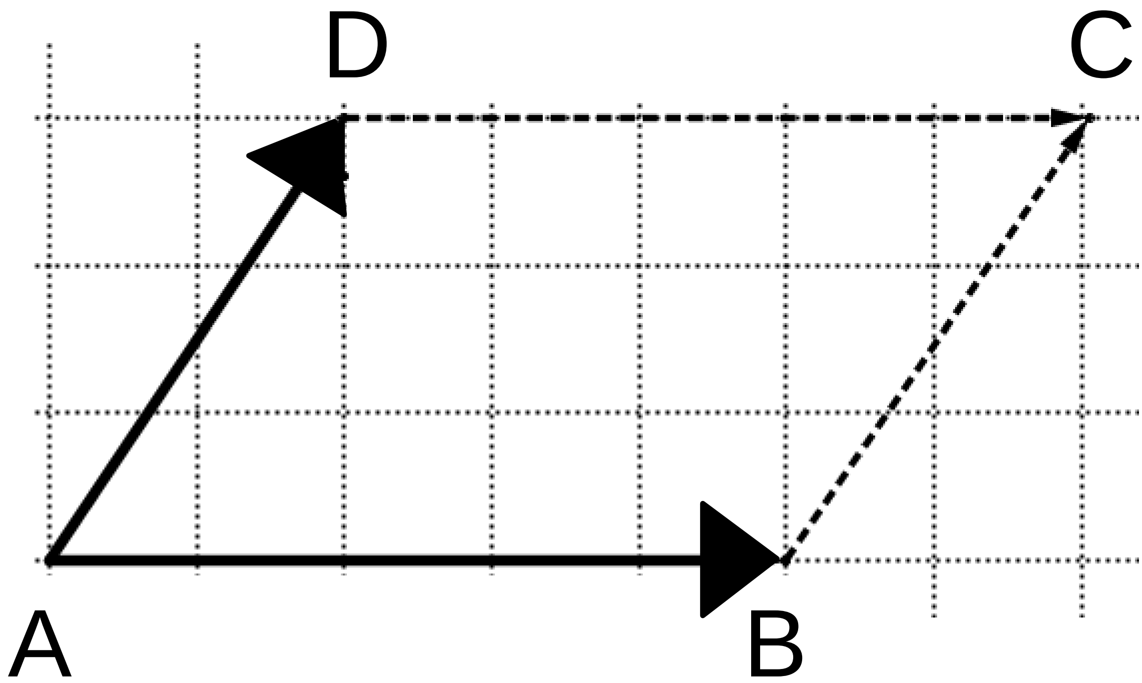
Parallelogramm

Geg. A, 'vAB, 'vAD

Ges. B, C, D



Vektoren in R^2

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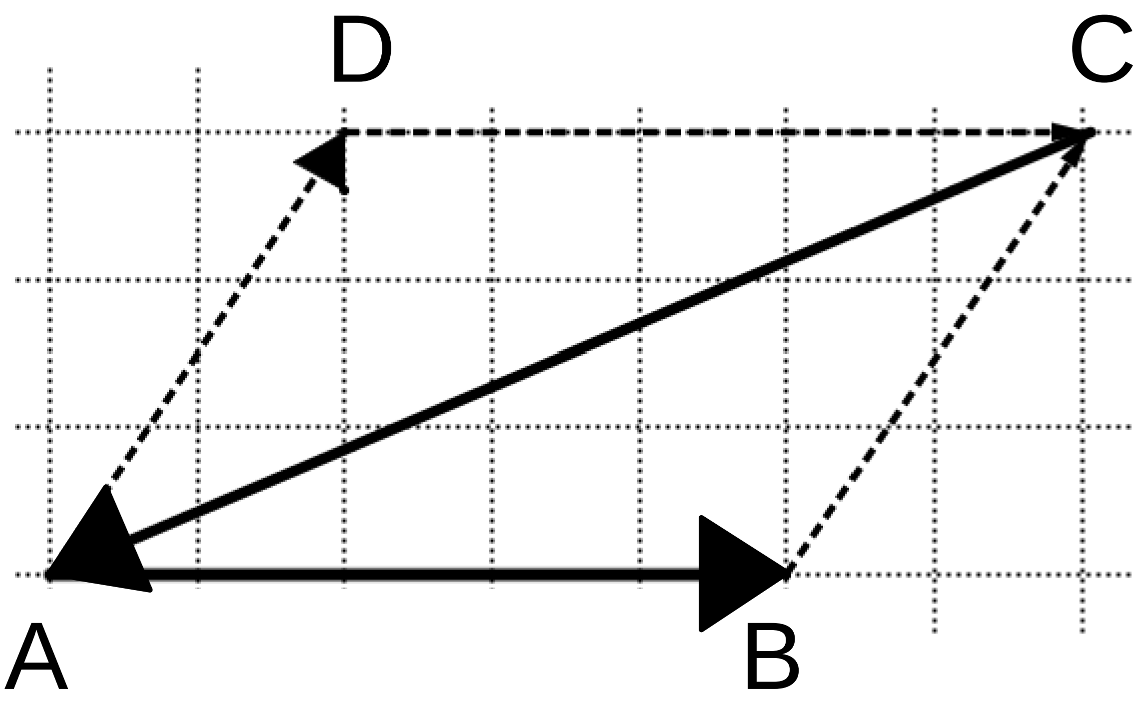
Parallelogramm

Geg. A, 'vAB, 'vCA

Ges. B, C, D



Vektoren in R^2

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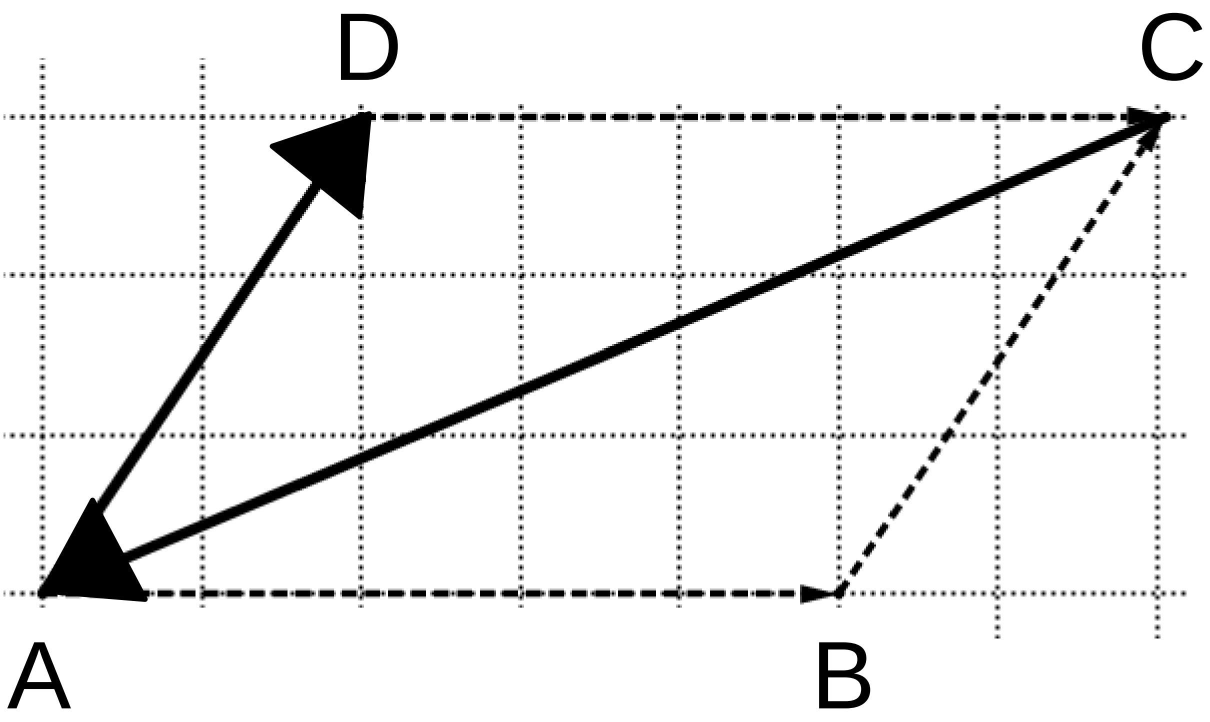
Parallelogramm

Geg. A, 'vAB, 'vCA

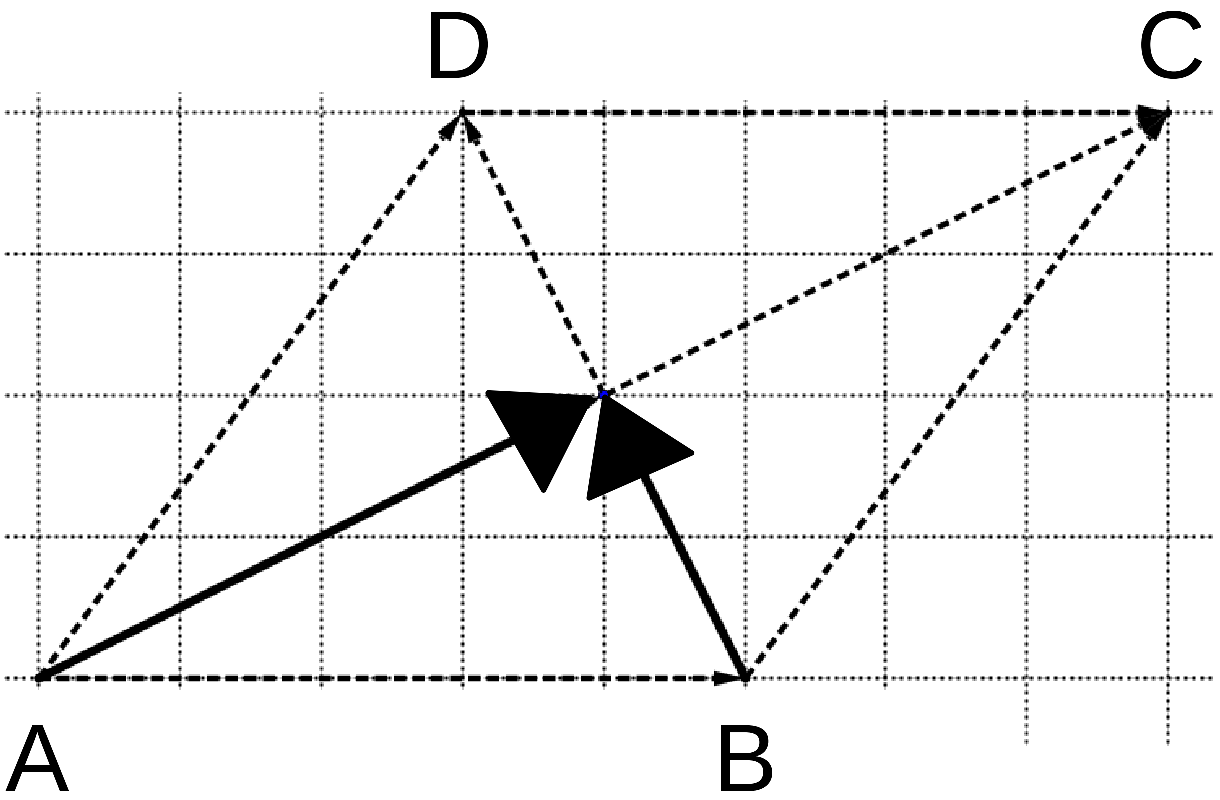
Ges. B, C, D



Rhombus (Raute)

Geg. A, 'vAM, 'vBM

Ges. B, C, D



Vektoren in R^2

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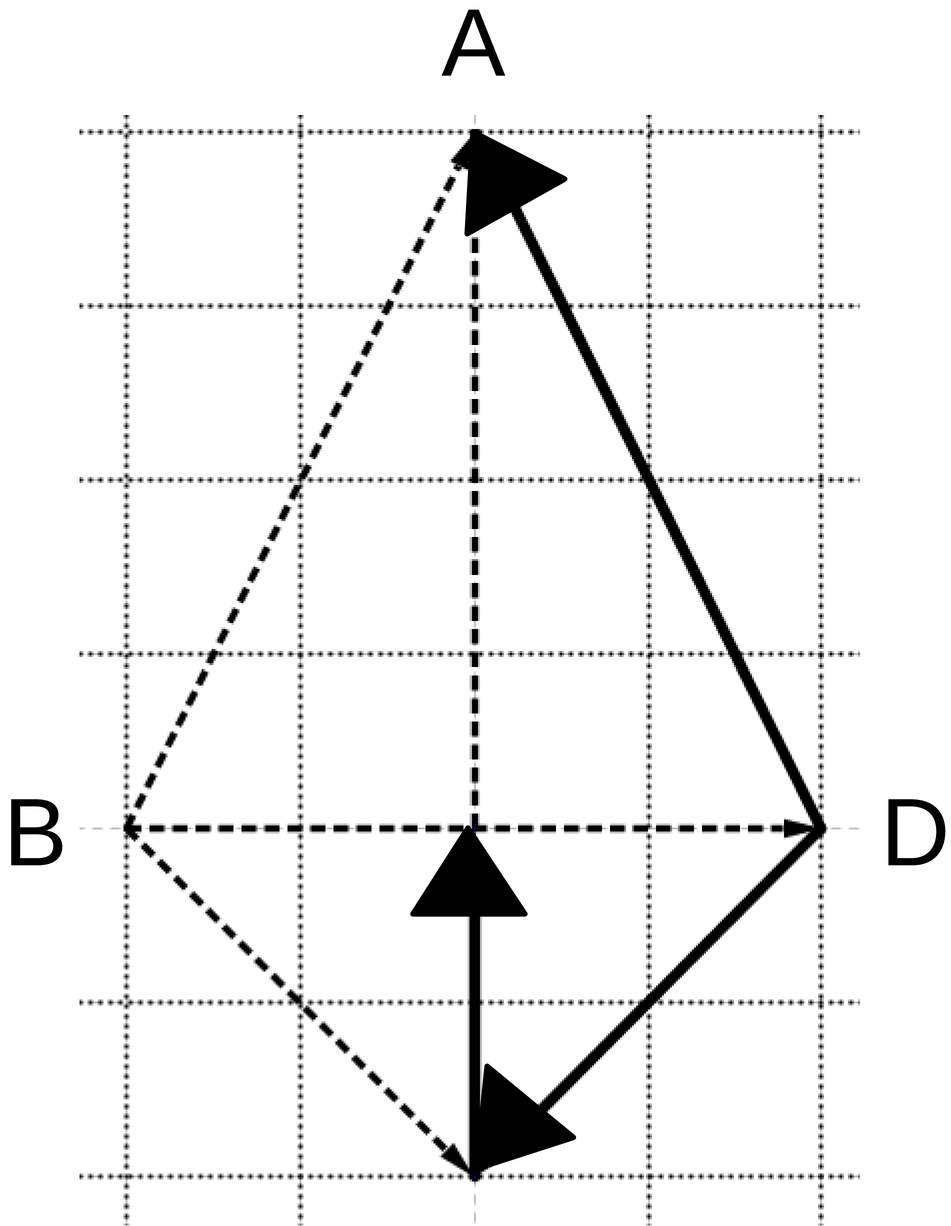
Deltoid

Geg. A, C, D, M_f

Ges. B



Vektoren in R^2

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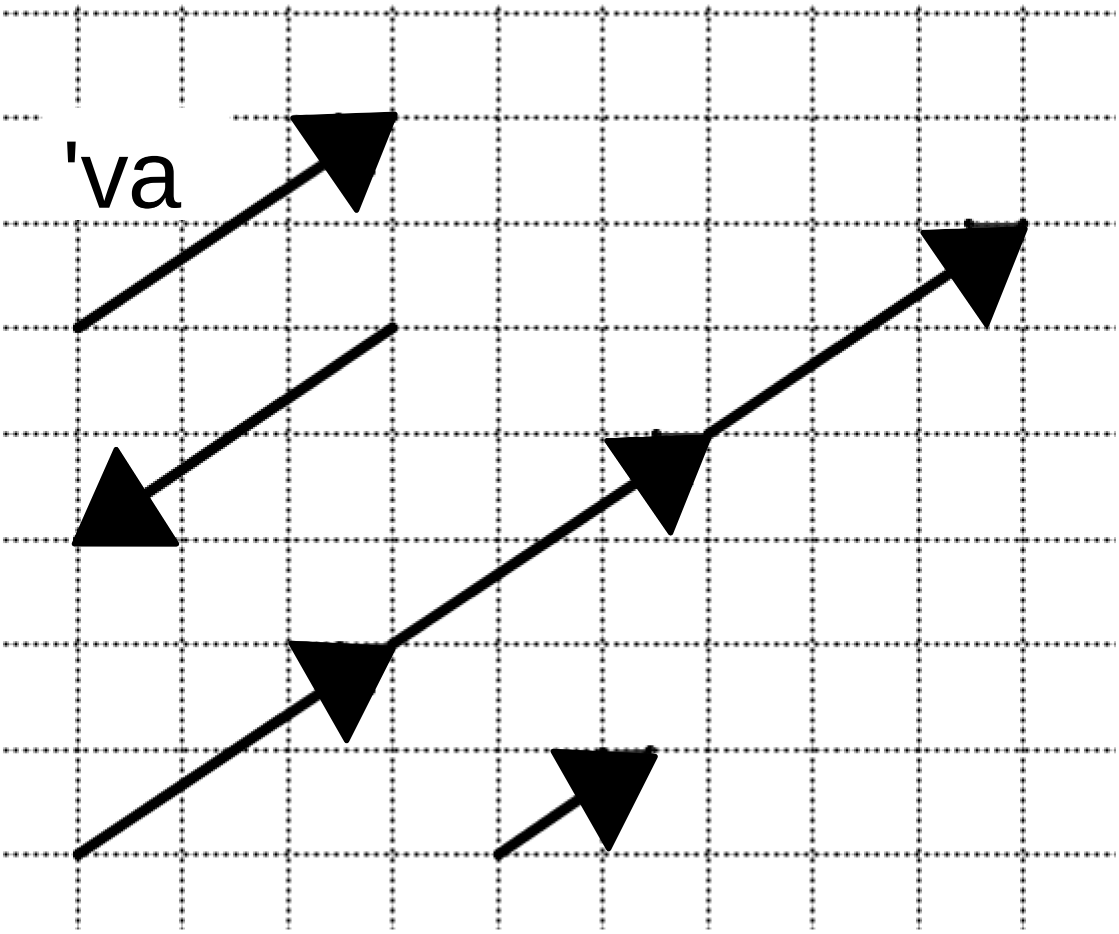
Mult. mit einem Skalar

'va; -'va; 3 *'va; 1/2 *'va



Vektoren in R^2

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Skalarprodukt

'va *'vb =Länge des Vektors 'va mal Länge der Normalprojektion des Vektors 'vb auf 'va