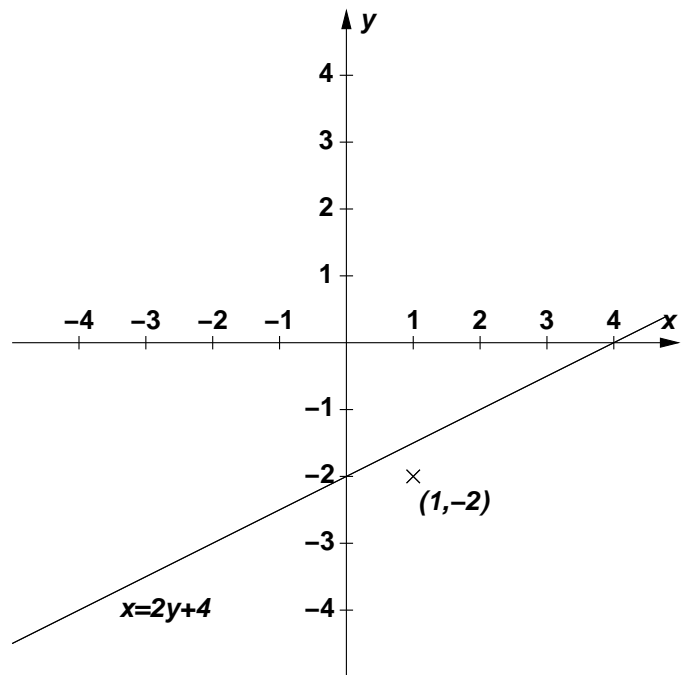
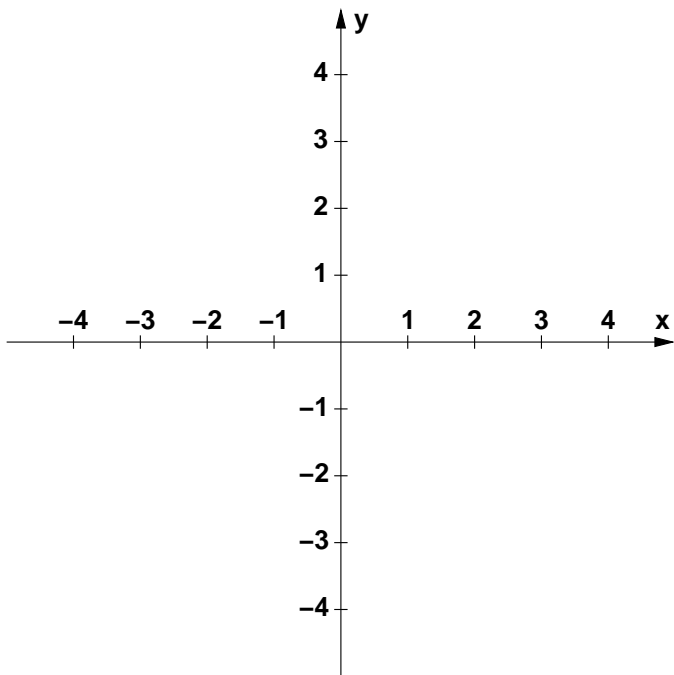


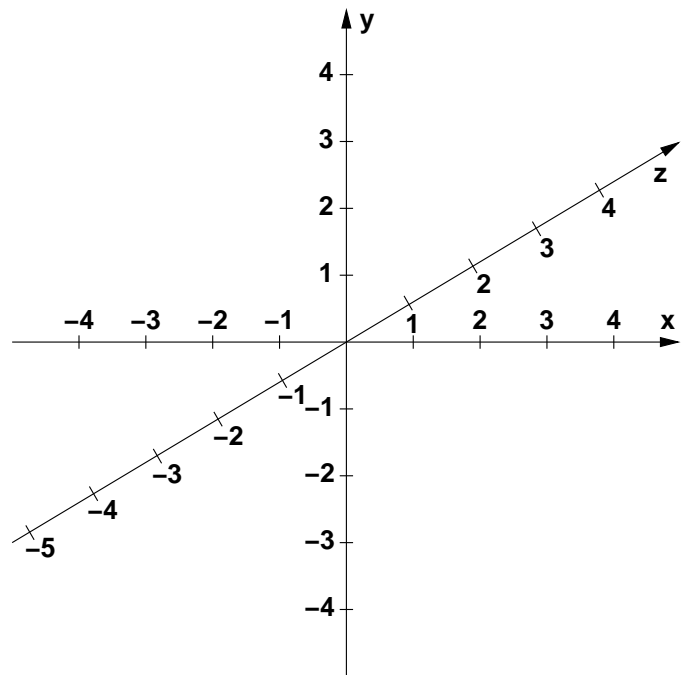
Grafische Veranschaulichung von Lösungsmengen



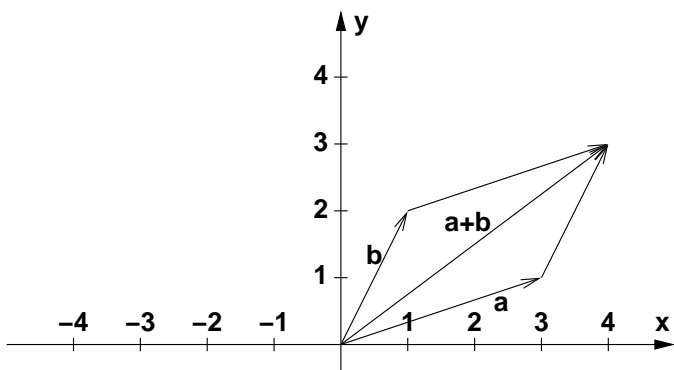
## 2-dimensionales Koordinatensystem



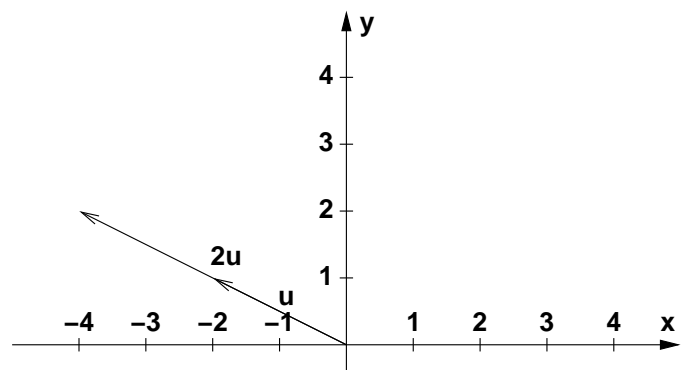
## 3-dimensionales Koordinatensystem



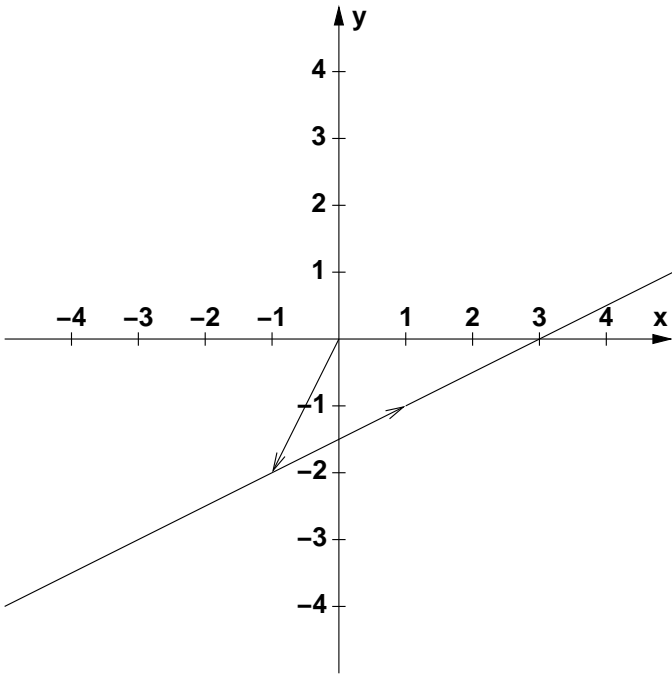
### Addition von Vektoren



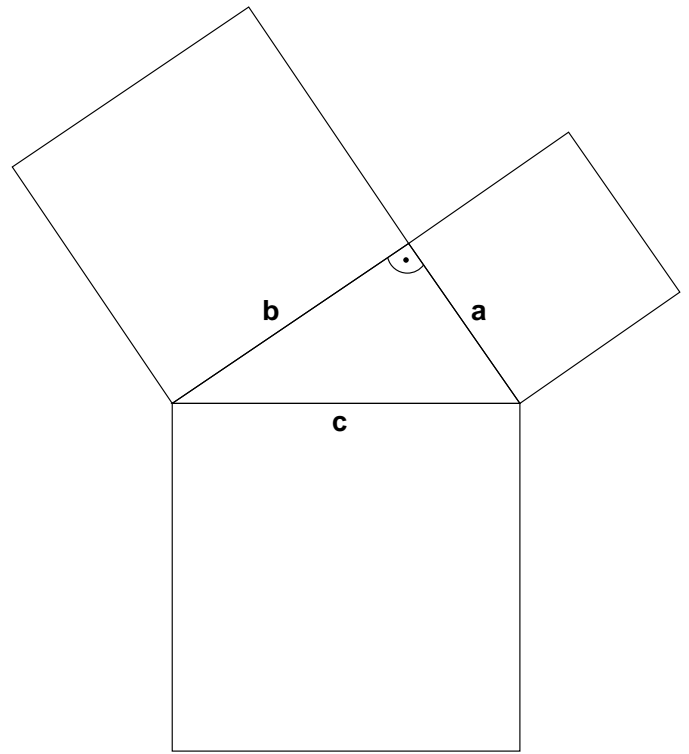
### Vielfache von Vektoren



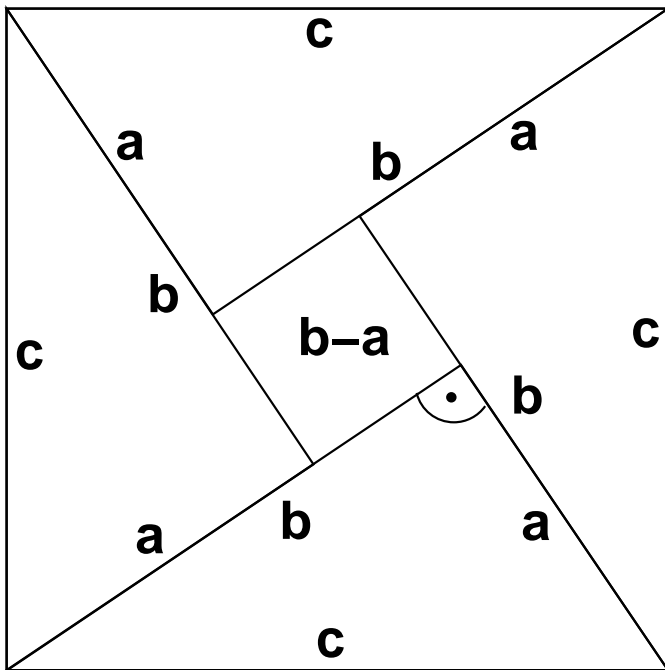
### Gerade in Parameterform



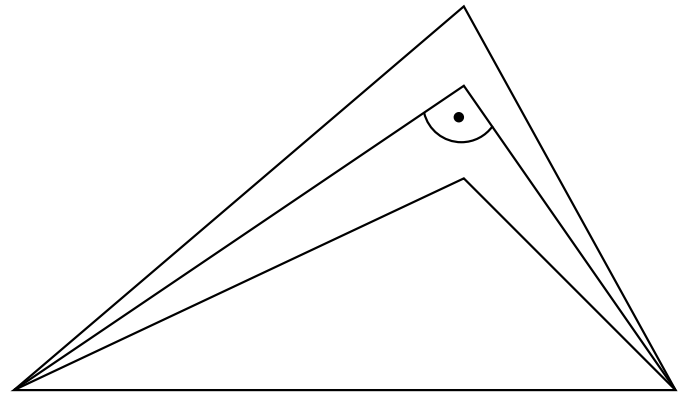
### Satz des Pythagoras



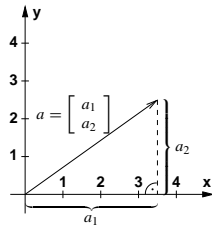
### Beweis für Satz des Pythagoras



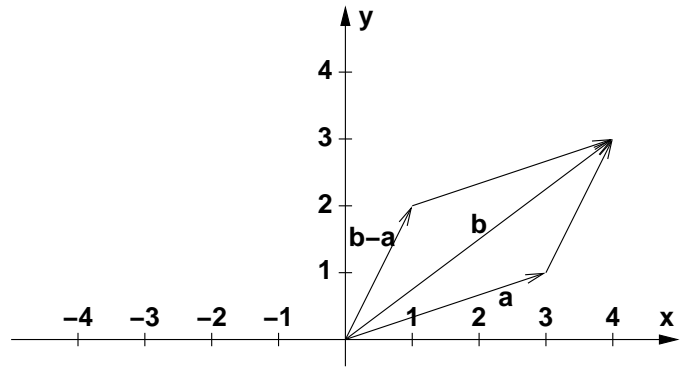
### Beweis für die Umkehrung des Satzes des Pythagoras



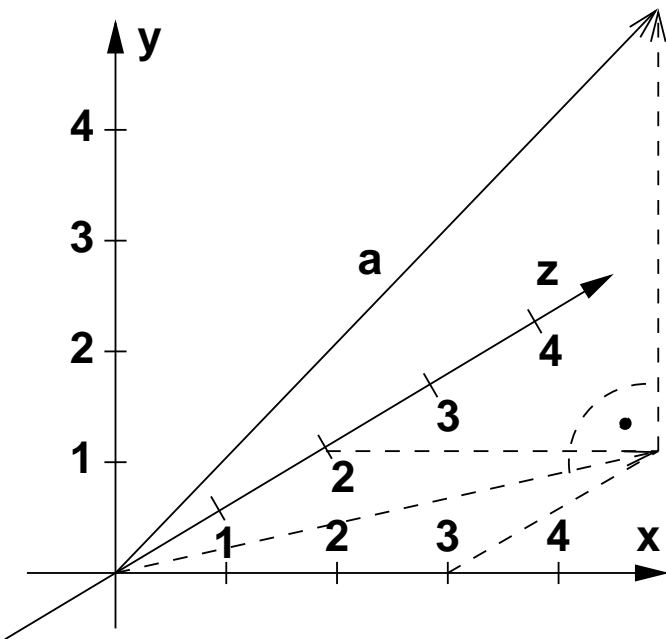
### Länge von Vektoren



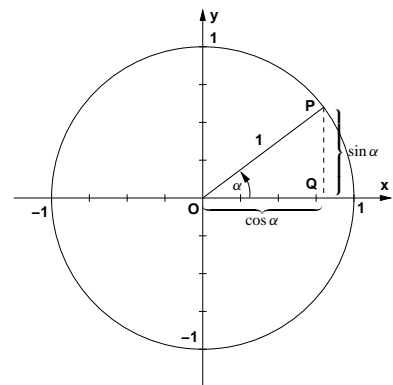
### Abstand von Punkten in der Ebene



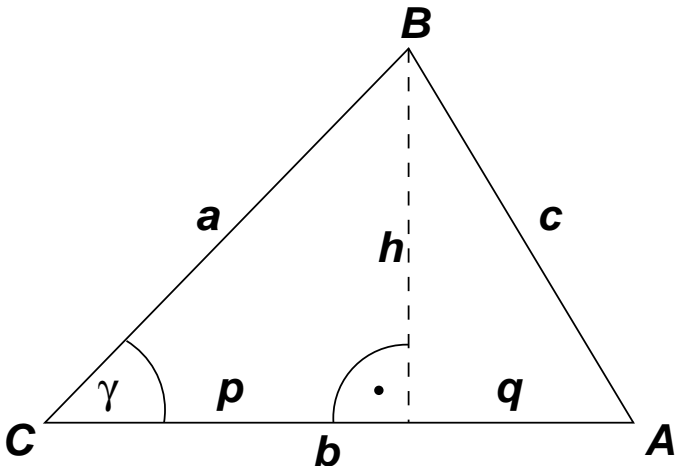
### Länge von Vektoren im Raum



### Sinus und Cosinus

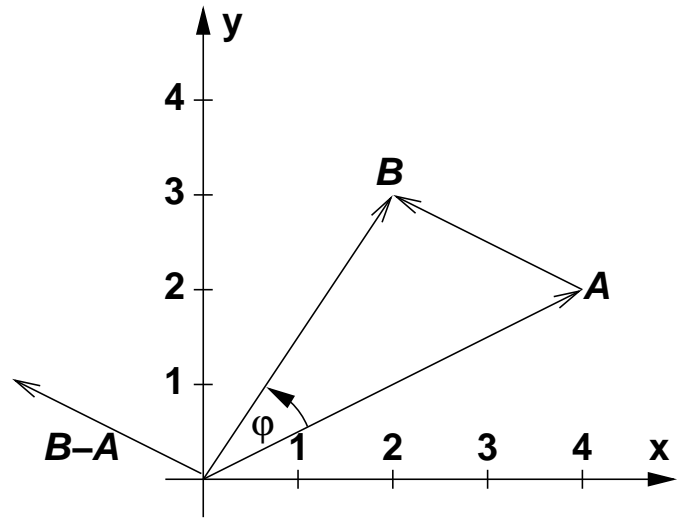


Cosinussatz

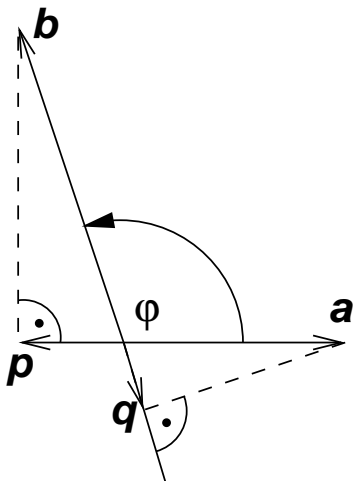
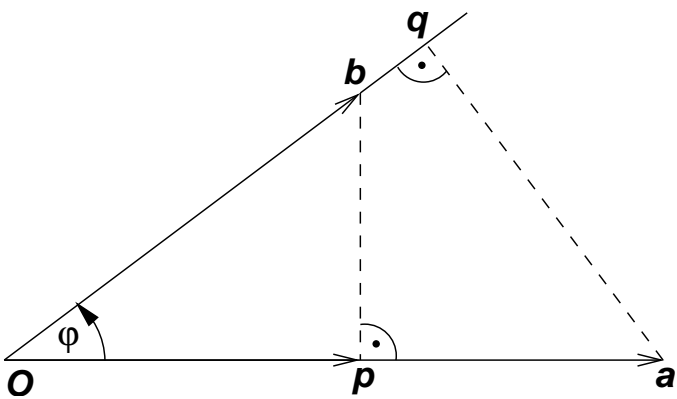


$$c^2 = a^2 + b^2 - 2 \cdot a \cdot b \cdot \cos \gamma$$

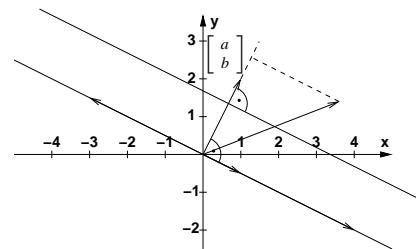
Länge der Differenz zweier Vektoren



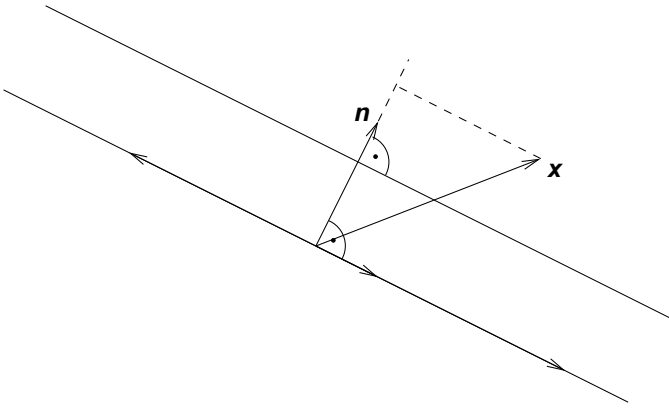
Geometrische Interpretation des Skalarprodukts



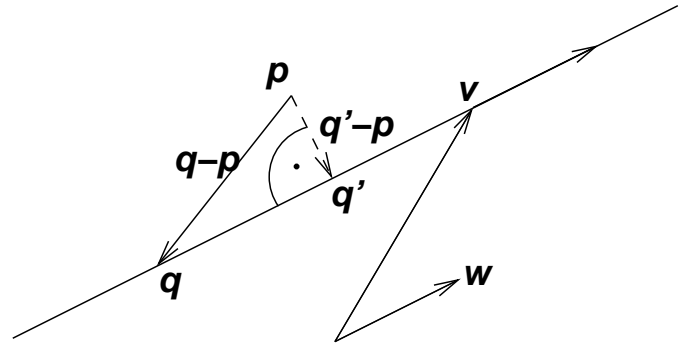
Normalenform einer Geraden in der Ebene



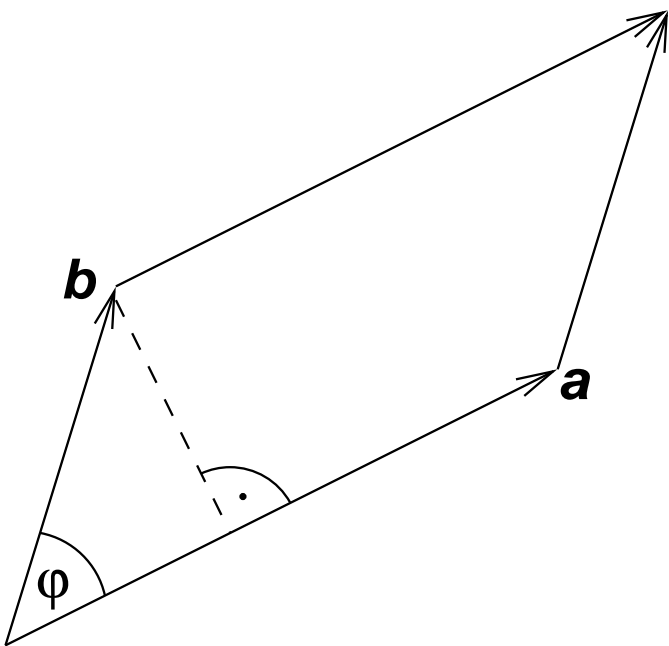
Normalenform einer Ebene im Raum



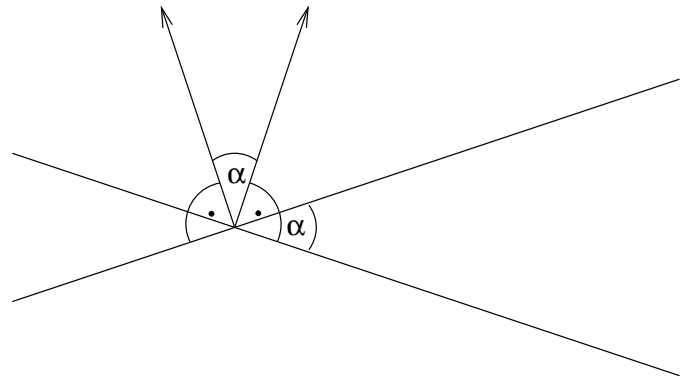
Kürzeste Entfernung von Punkt zu Gerade



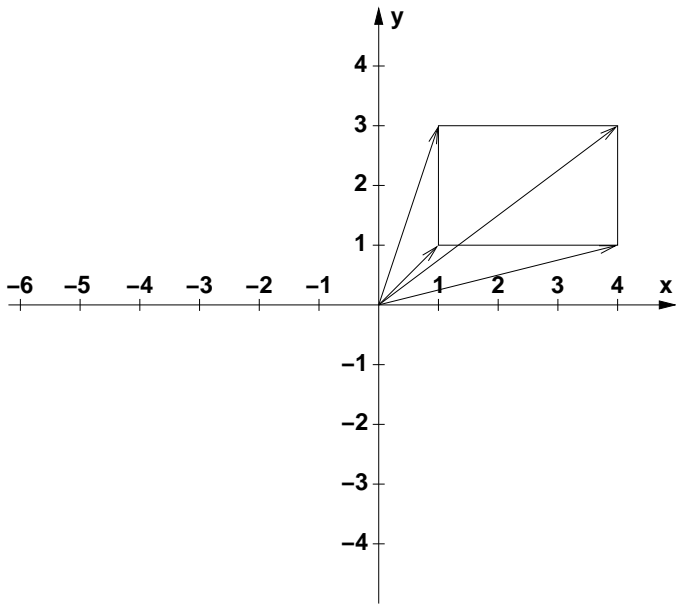
Kreuzprodukt



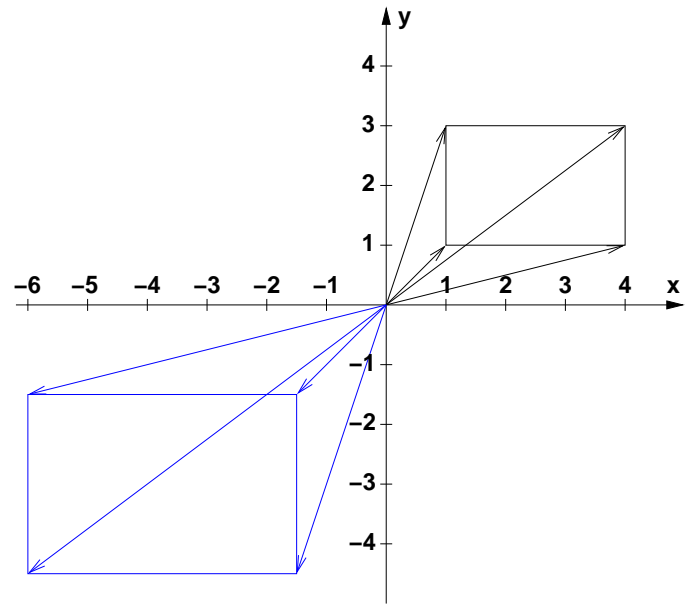
Winkel zwischen Geraden/Ebenen



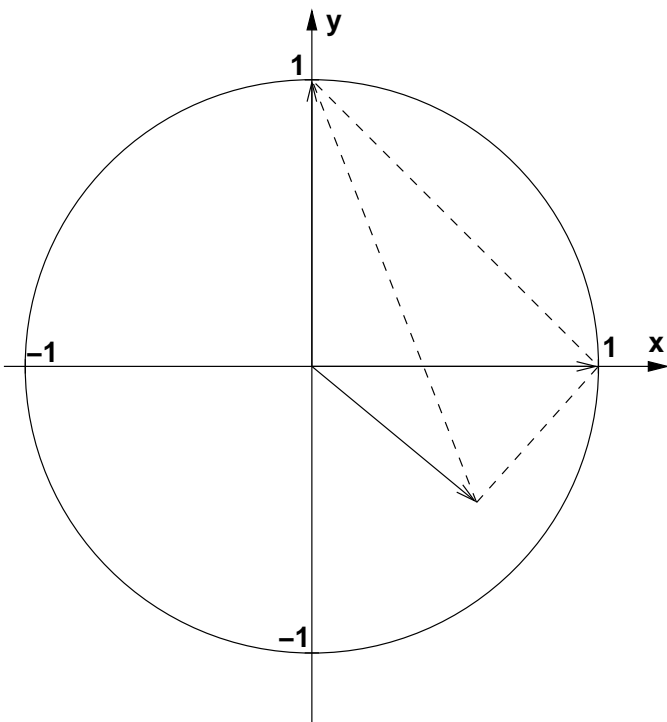
Zentrische Streckung



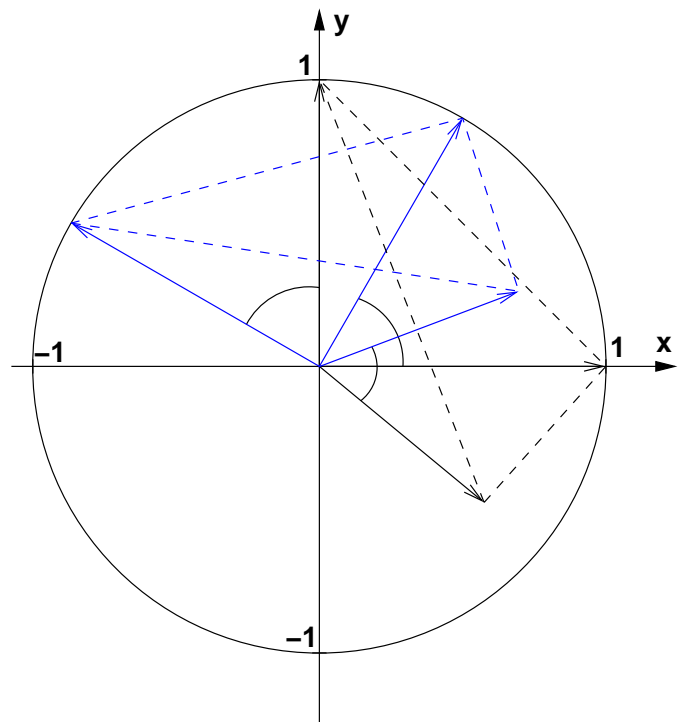
Zentrische Streckung



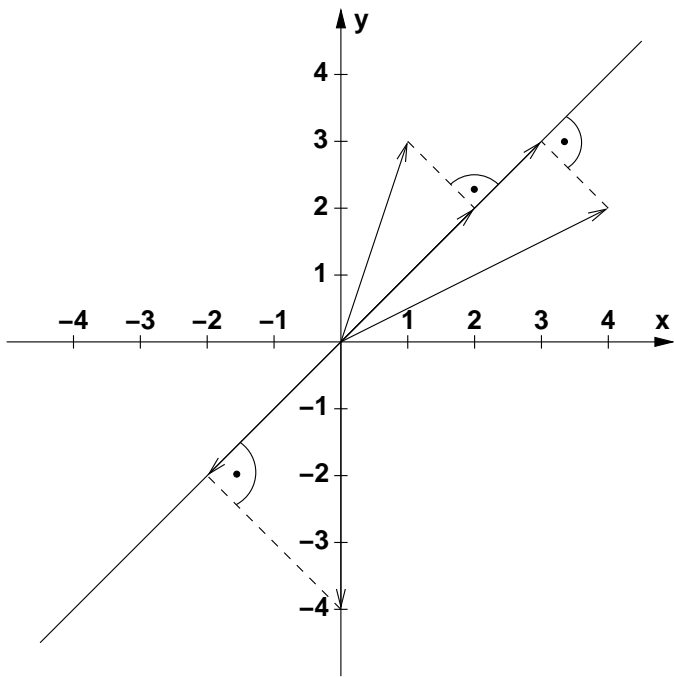
Drehung



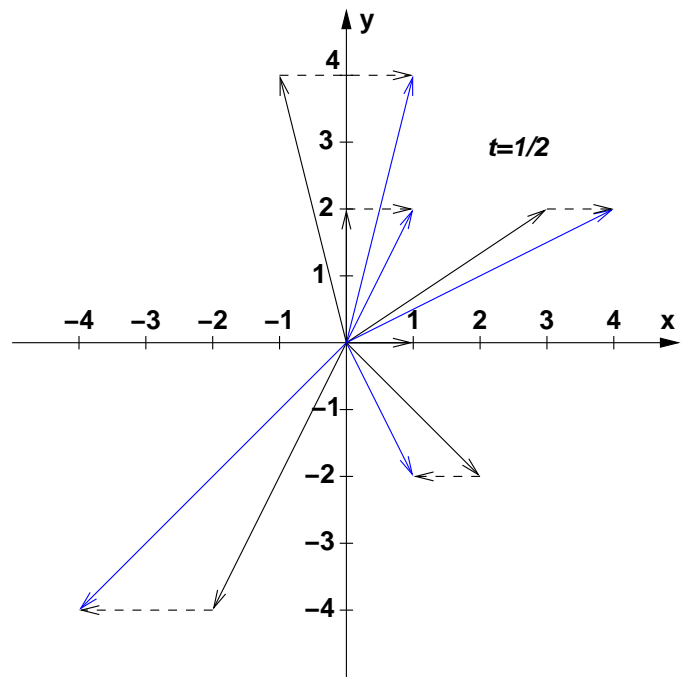
Drehung



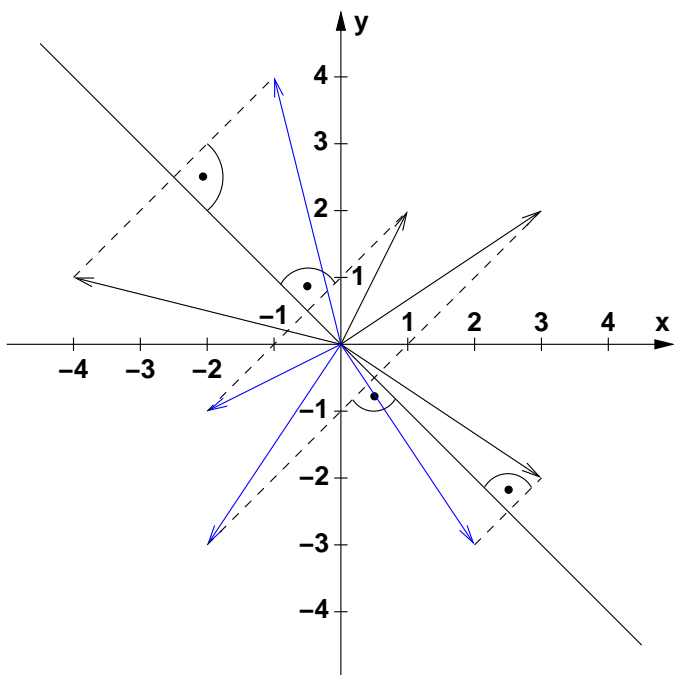
Projektion



Scherung



Achsen spiegung



Alle Dreiecke sind gleichseitig!

