Mathematik?
Spiel!

Scheitelwinkel
Nebenwinkel

Wechselwinkel
Stufenwinkel

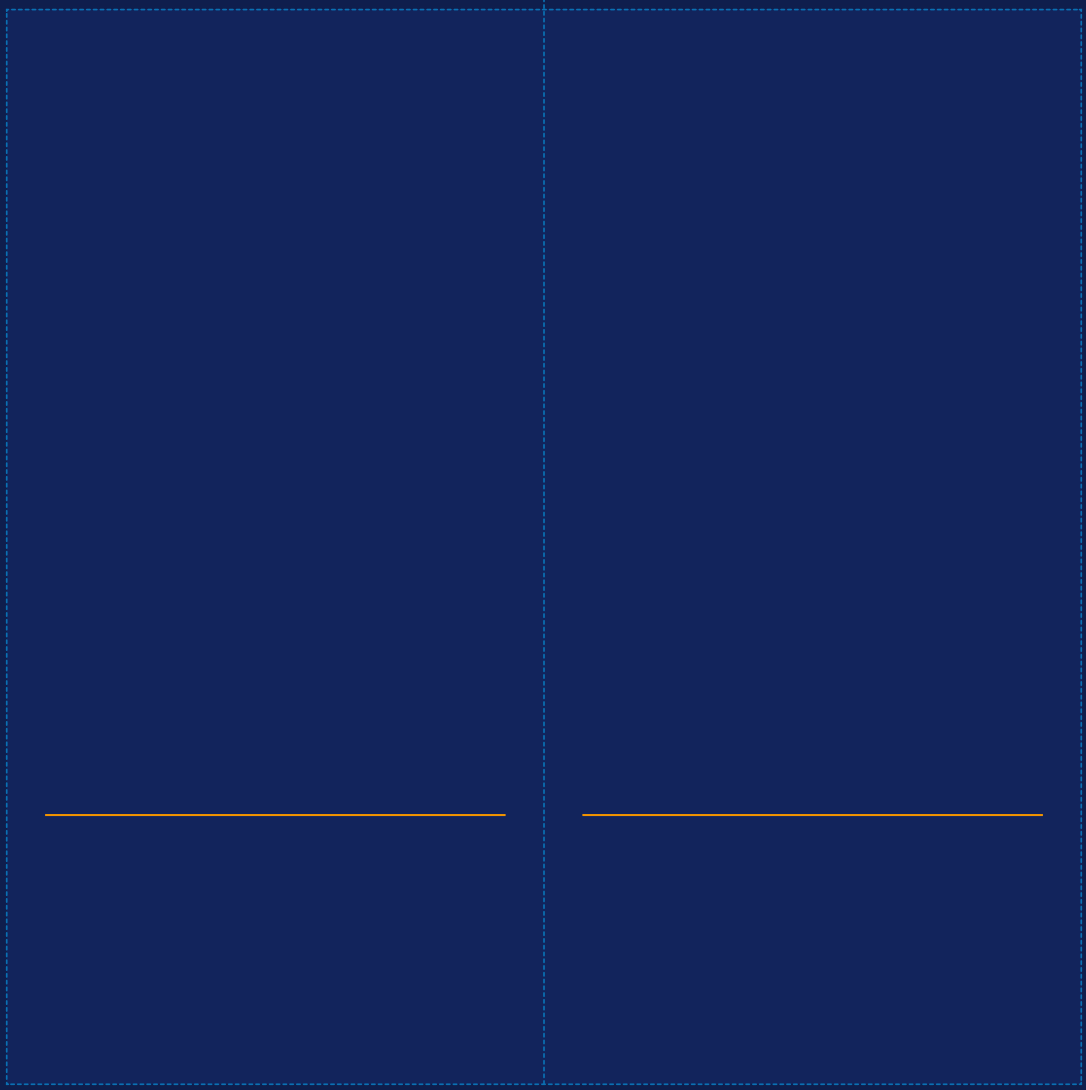
Winkel im
gleischschenkligen Dreieck

eugenjost@bluewin.ch

Scheitelwinkel
Nebenwinkel

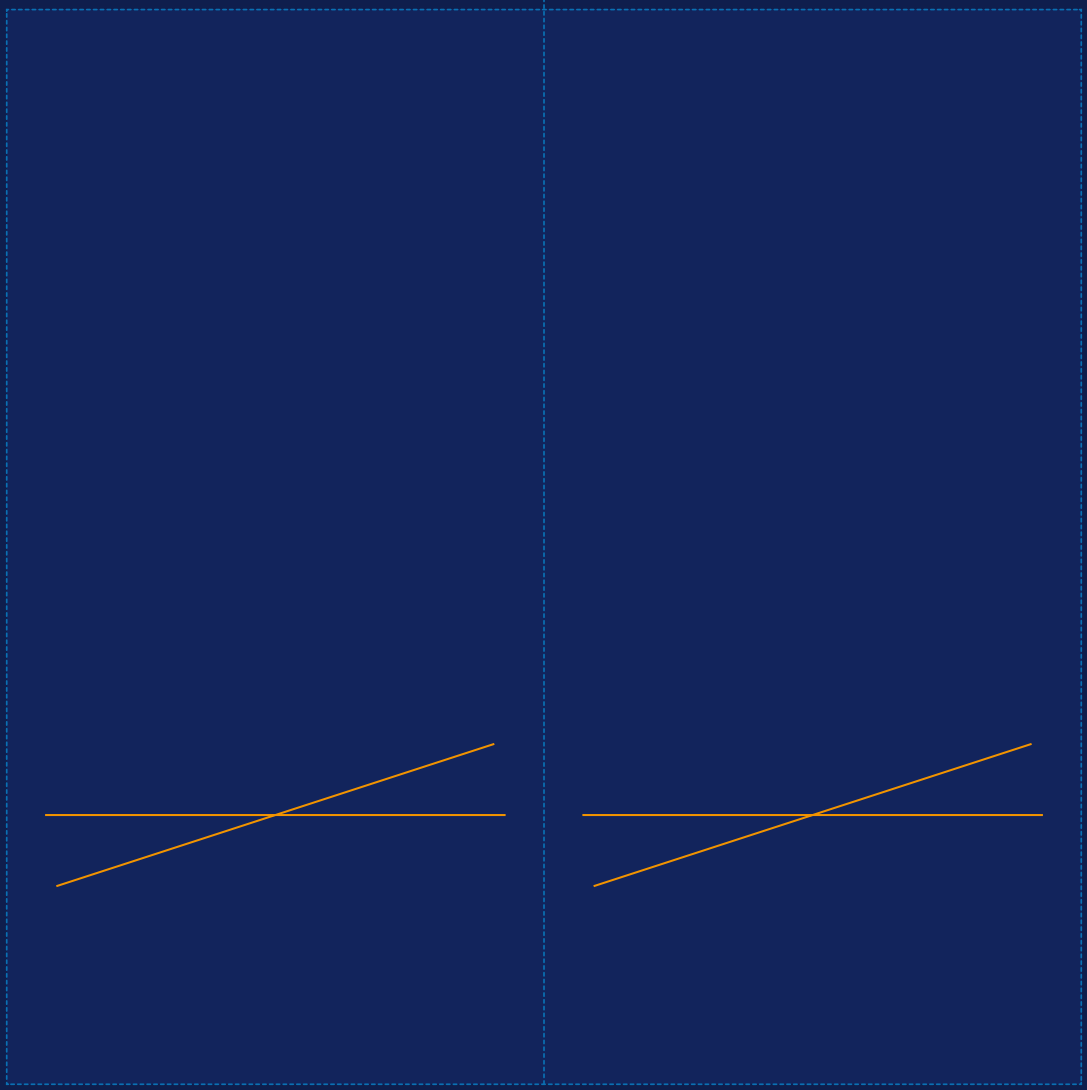
Scheitelwinkel

Nebenwinkel



Scheitelwinkel

Nebenwinkel



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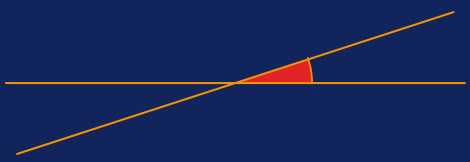
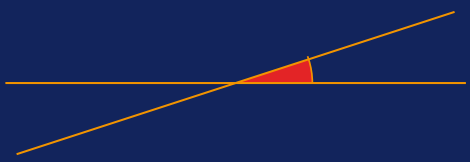
Nebenwinkel





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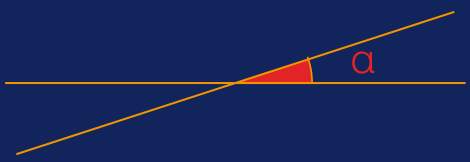
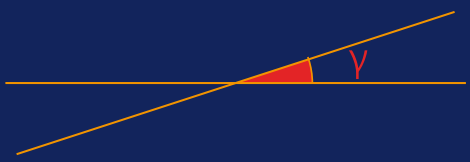
Nebenwinkel





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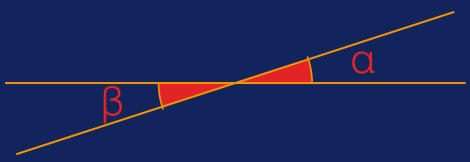

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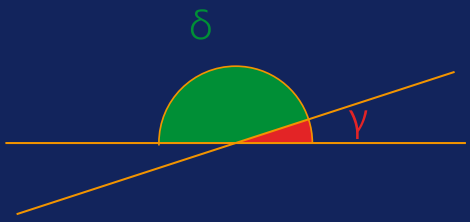
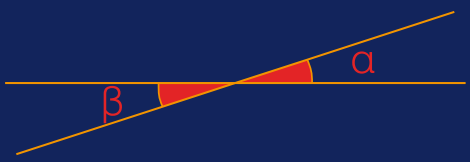


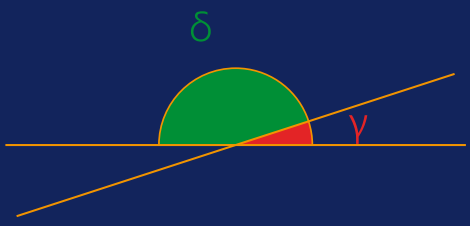
Scheitelwinkel

$\alpha = \beta$



Nebenwinkel

$\gamma + \delta = 180°$



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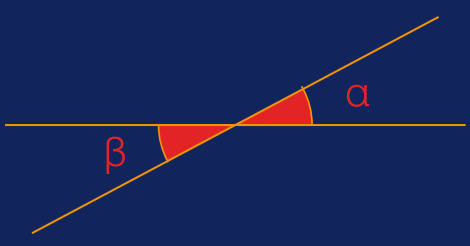

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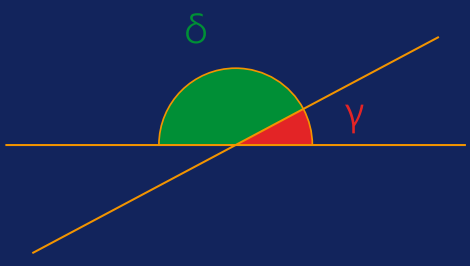

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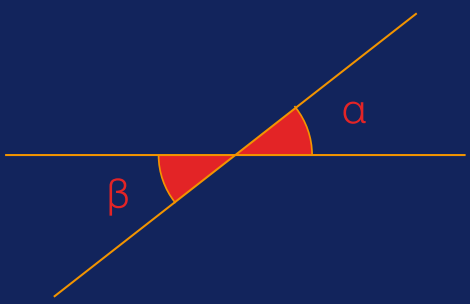

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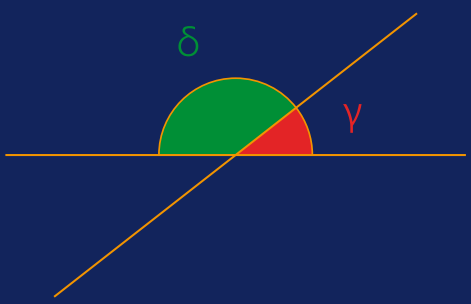

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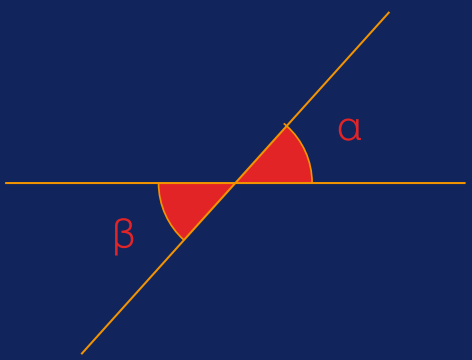

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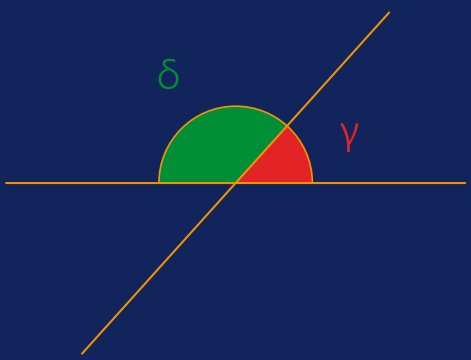

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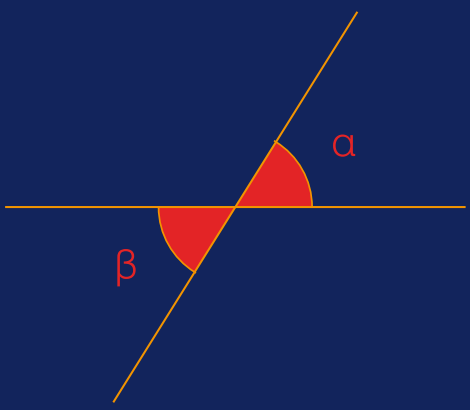

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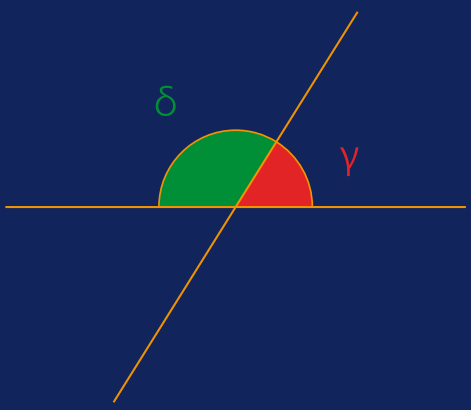

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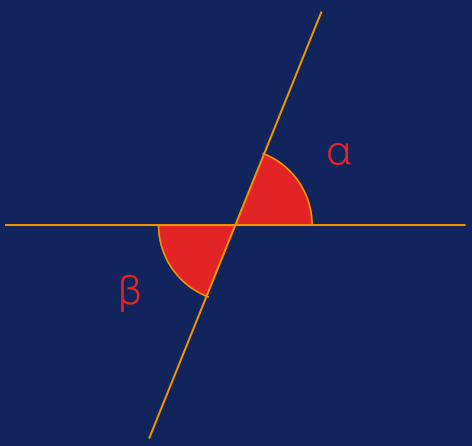

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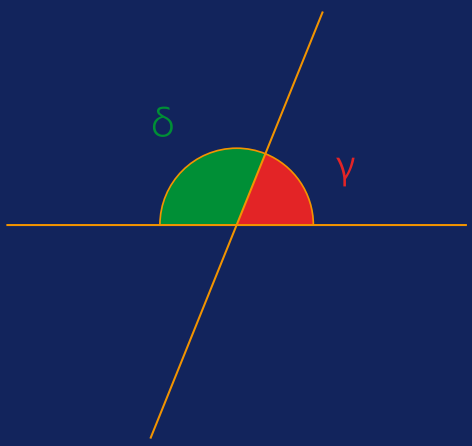

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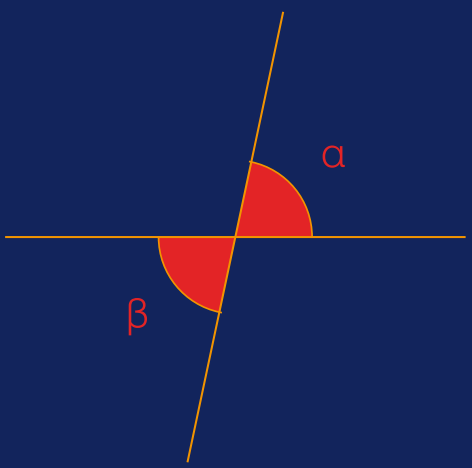

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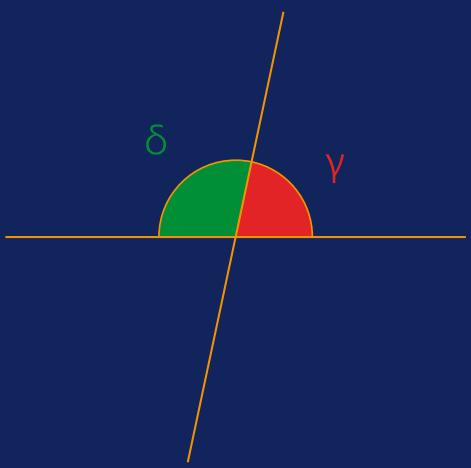

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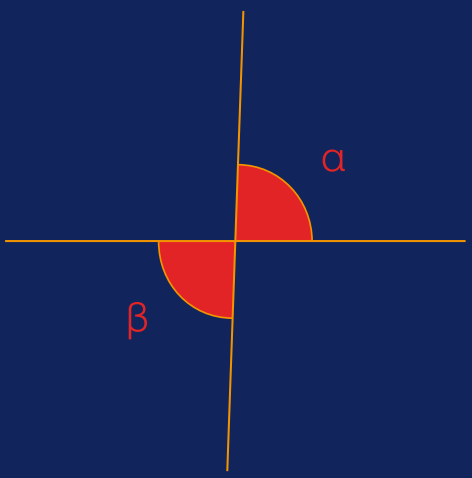

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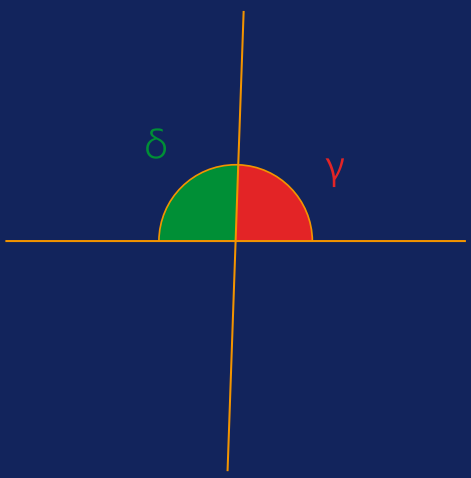

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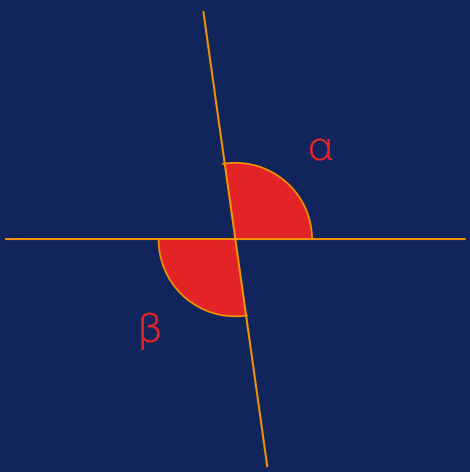

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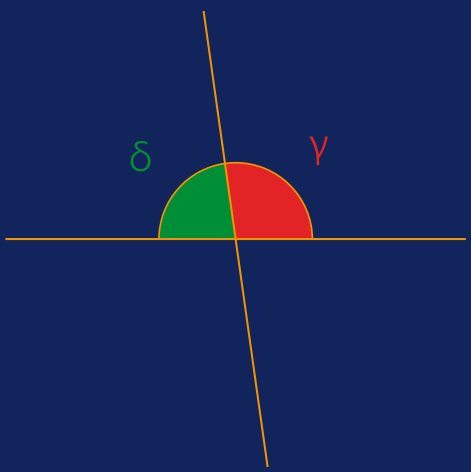

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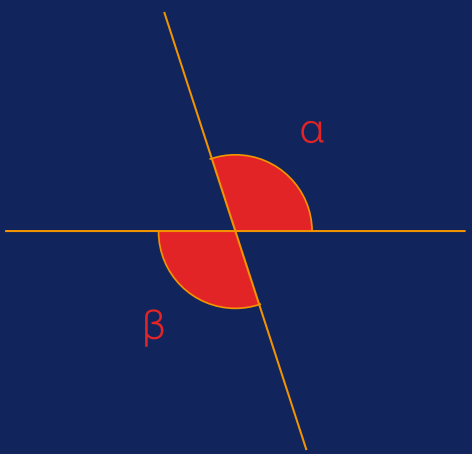

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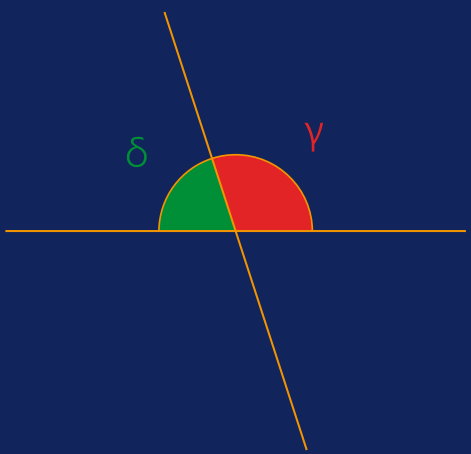

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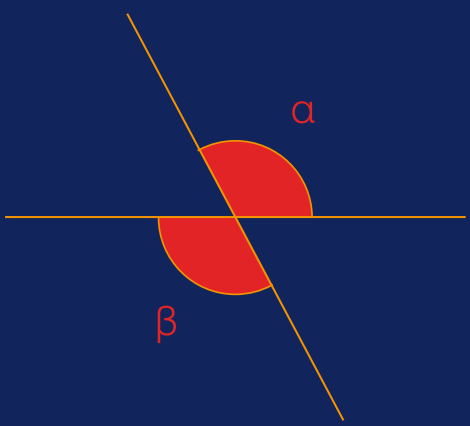

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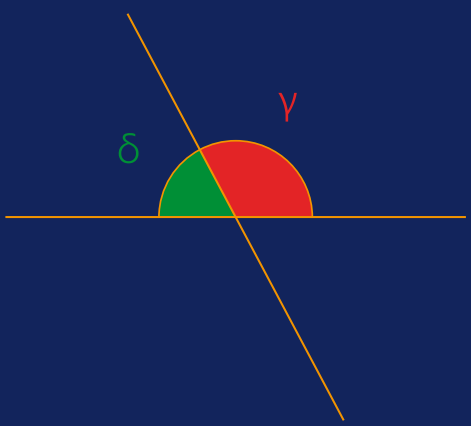

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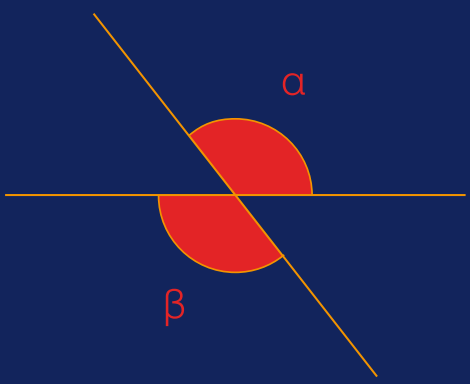

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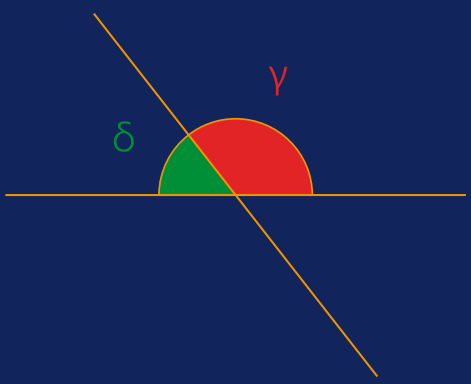

Stufenwinkel

Wechselwinkel

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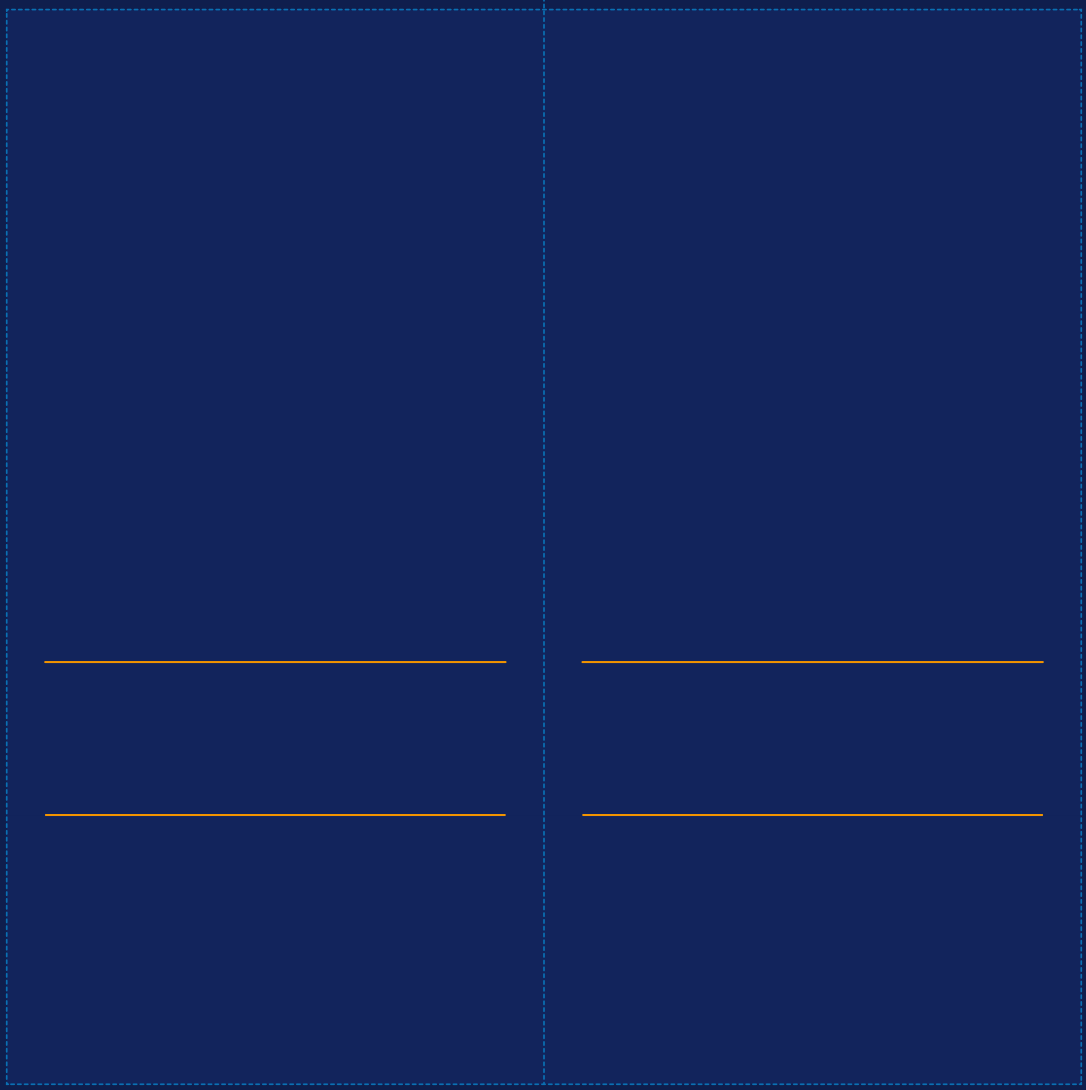

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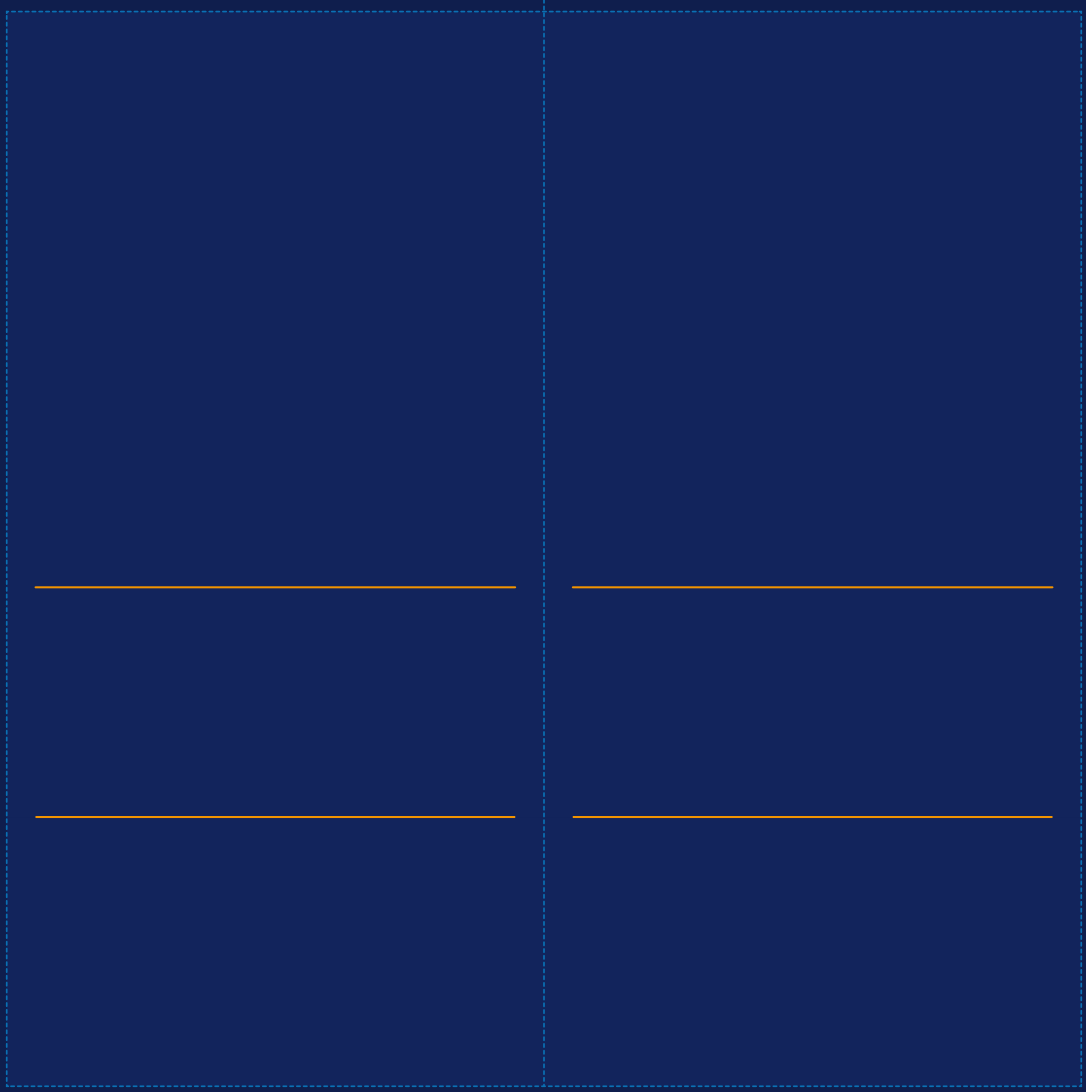

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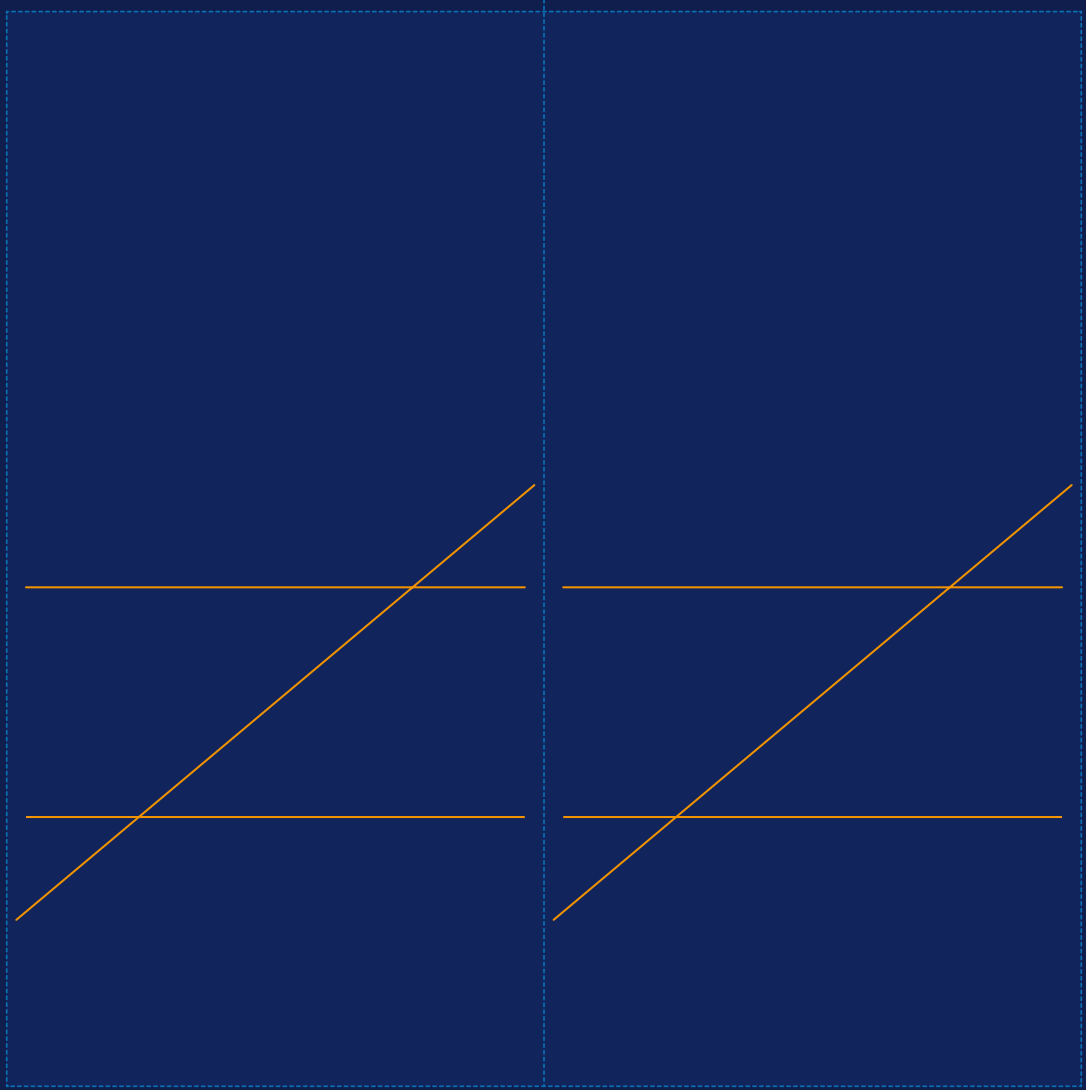

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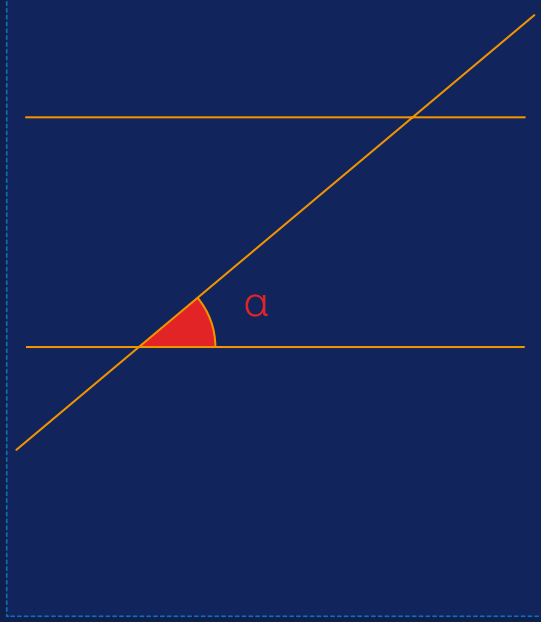

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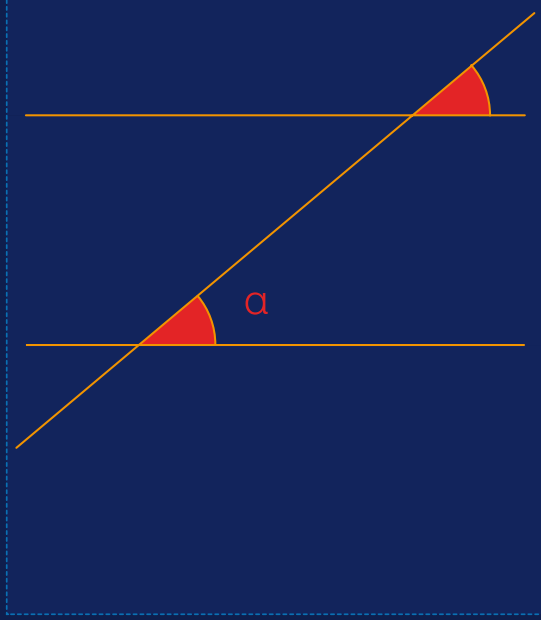

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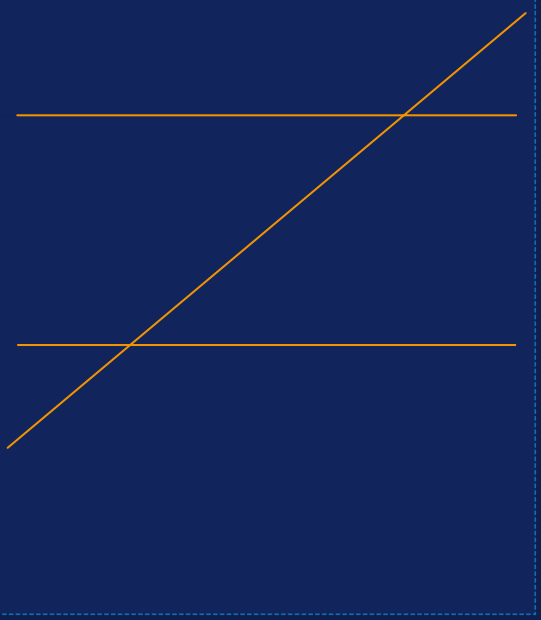

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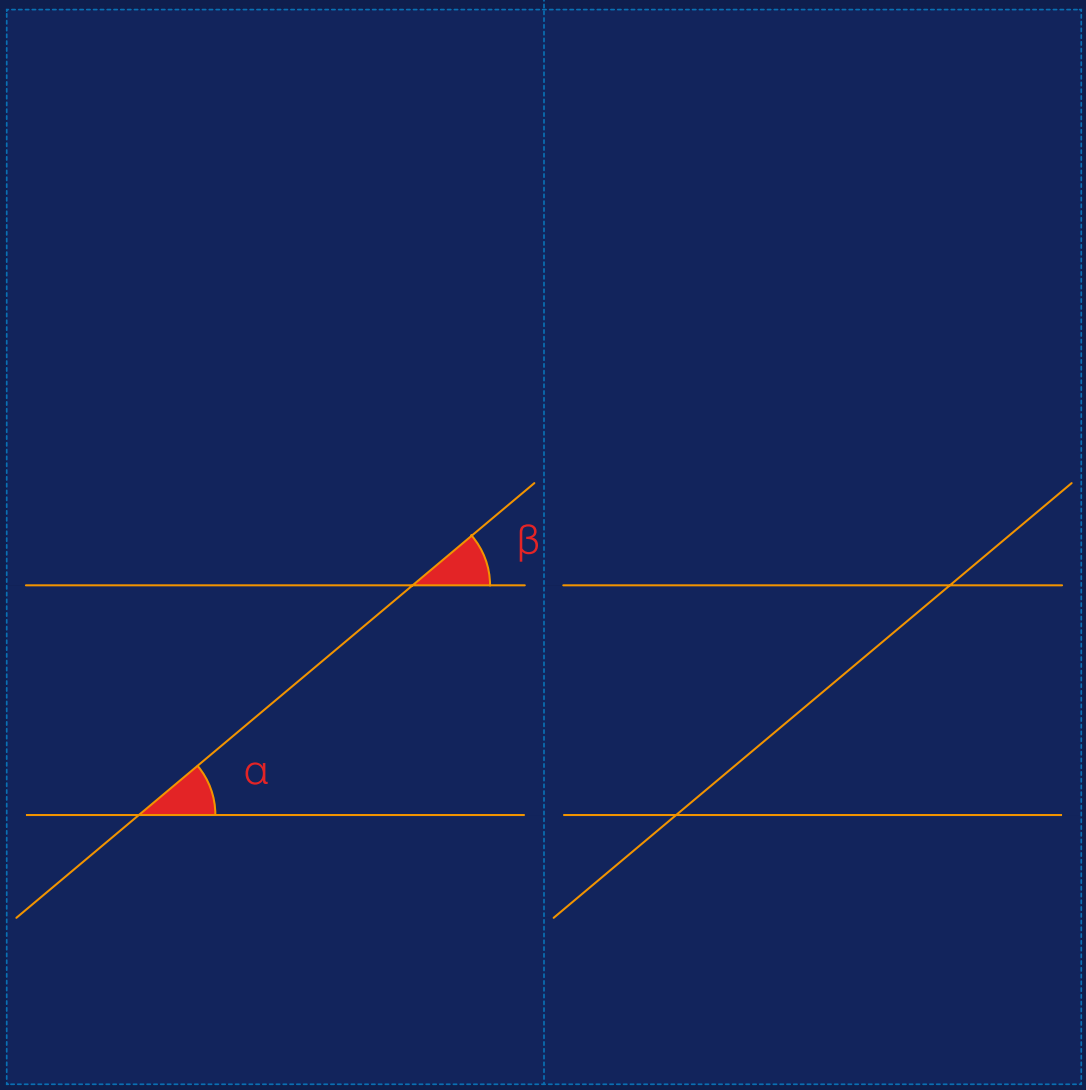
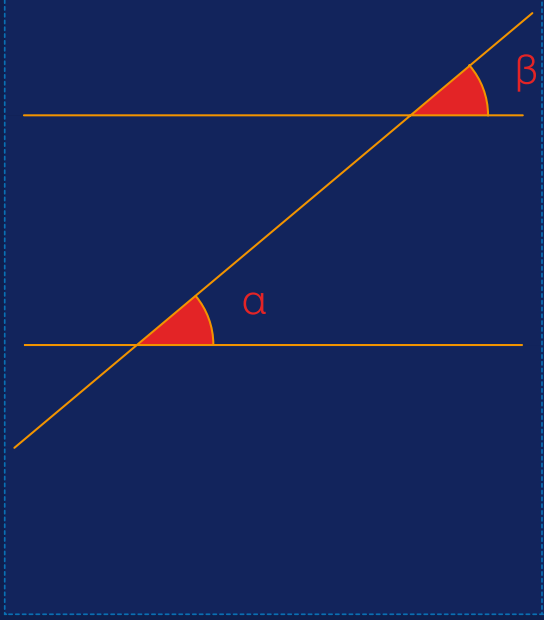
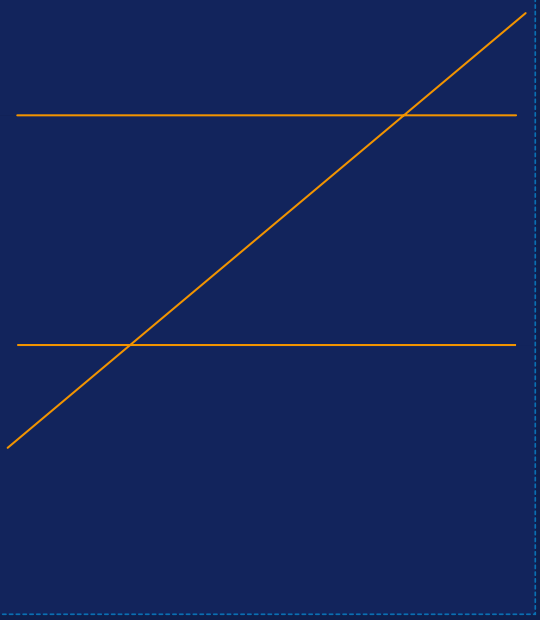


Stufenwinkel

Wechselwinkel

$\alpha = \beta$





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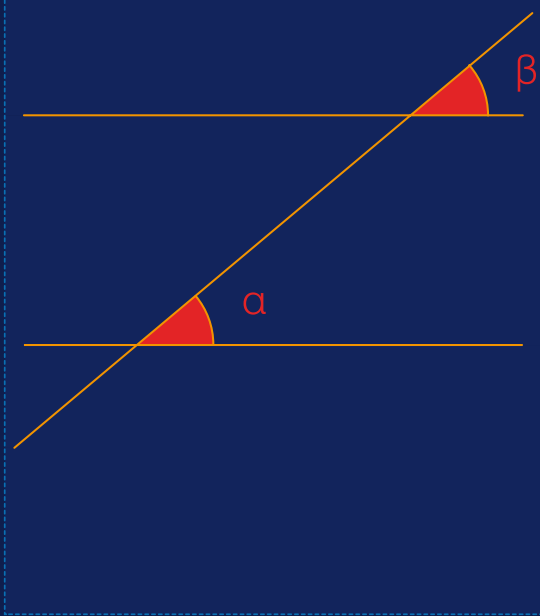

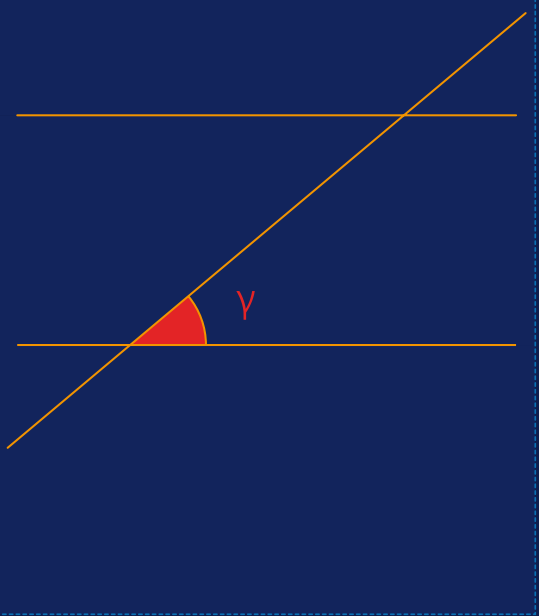

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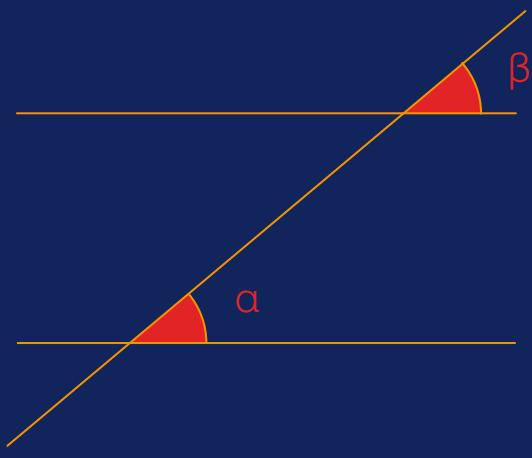

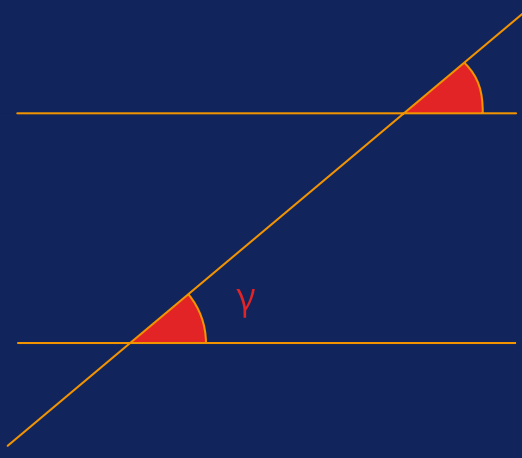

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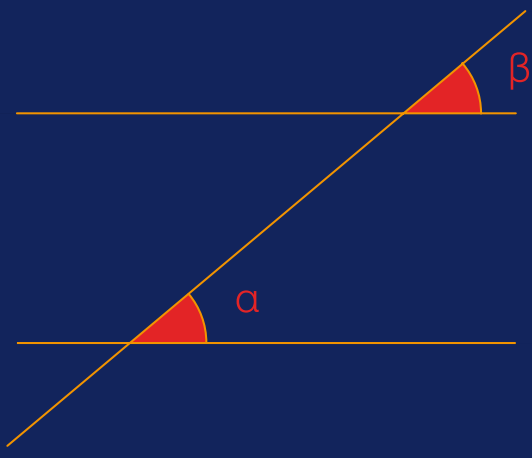

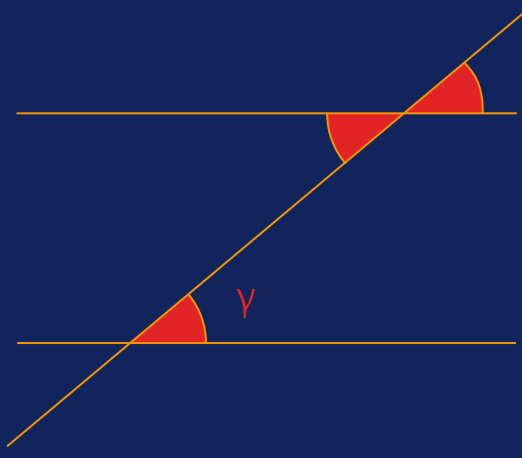

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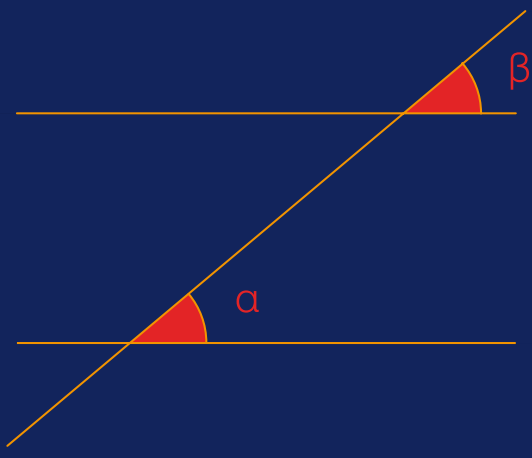

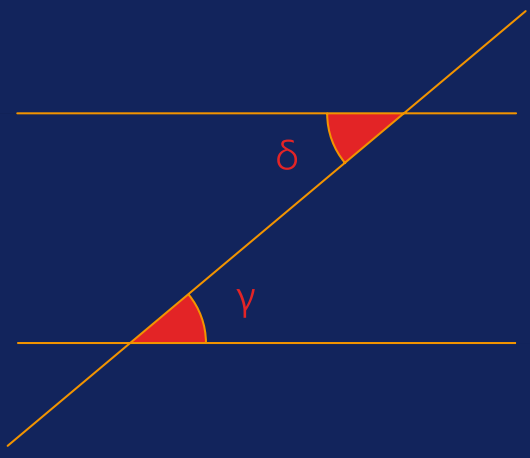

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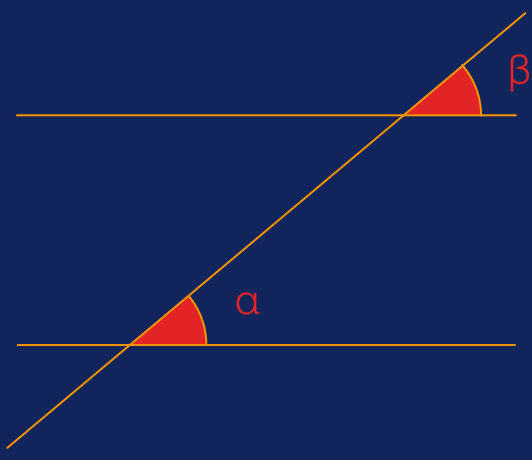
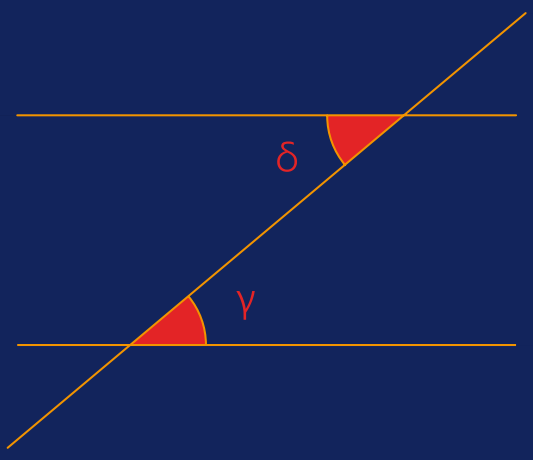


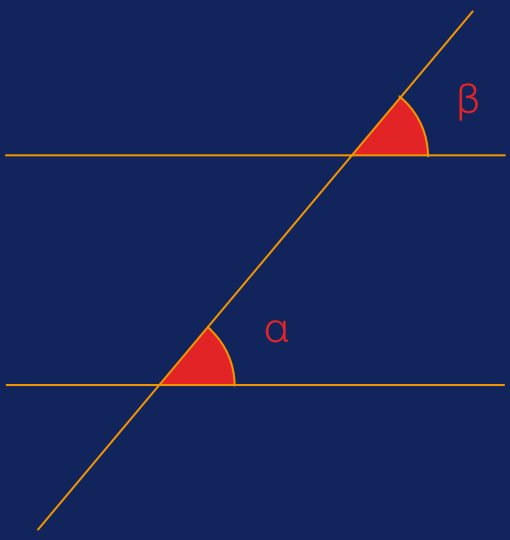
Wechselwinkel

$\gamma = \delta$



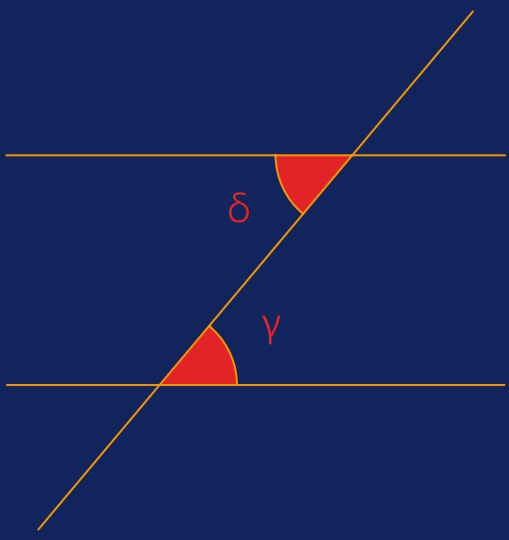
Stufenwinkel

$\alpha = \beta$



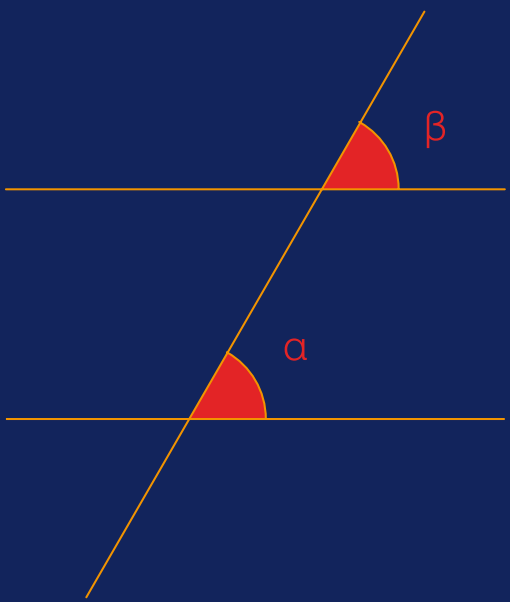
Wechselwinkel

$\gamma = \delta$



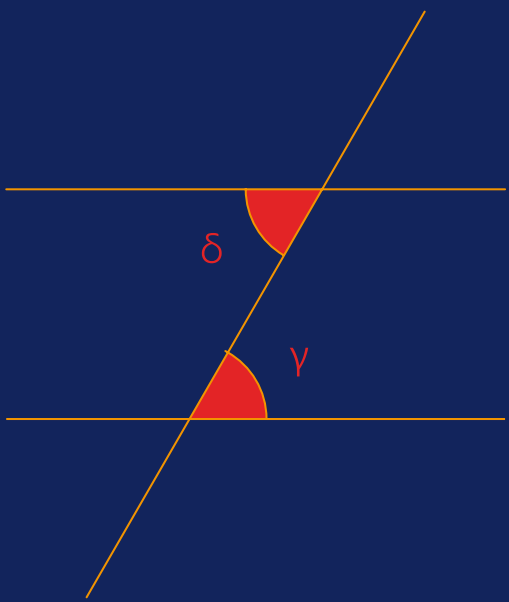
Stufenwinkel

$\alpha = \beta$



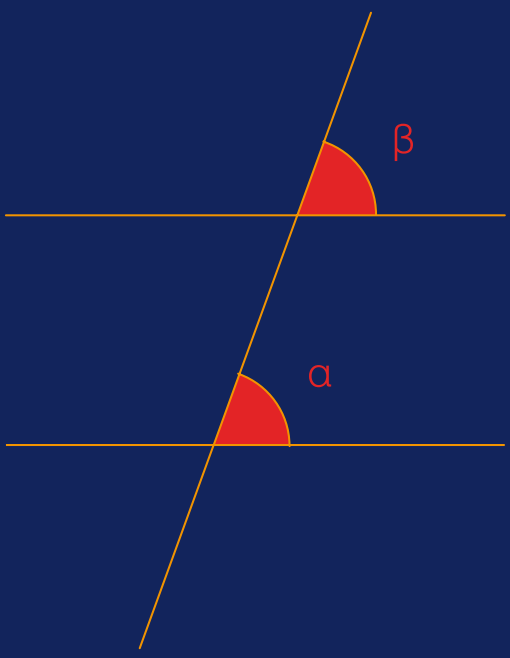
Wechselwinkel

$\gamma = \delta$



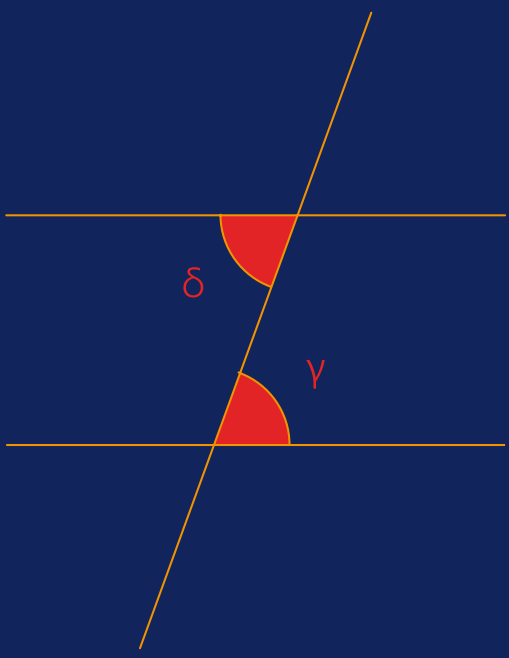
Stufenwinkel

$\alpha = \beta$



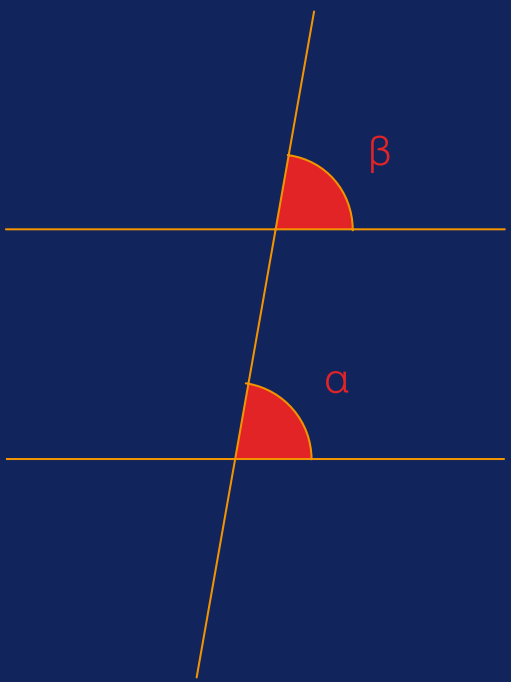
Wechselwinkel

$\gamma = \delta$



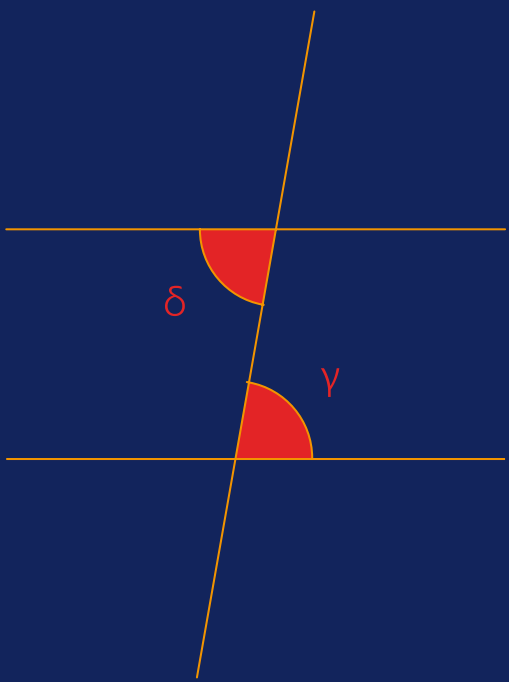
Stufenwinkel

$\alpha = \beta$



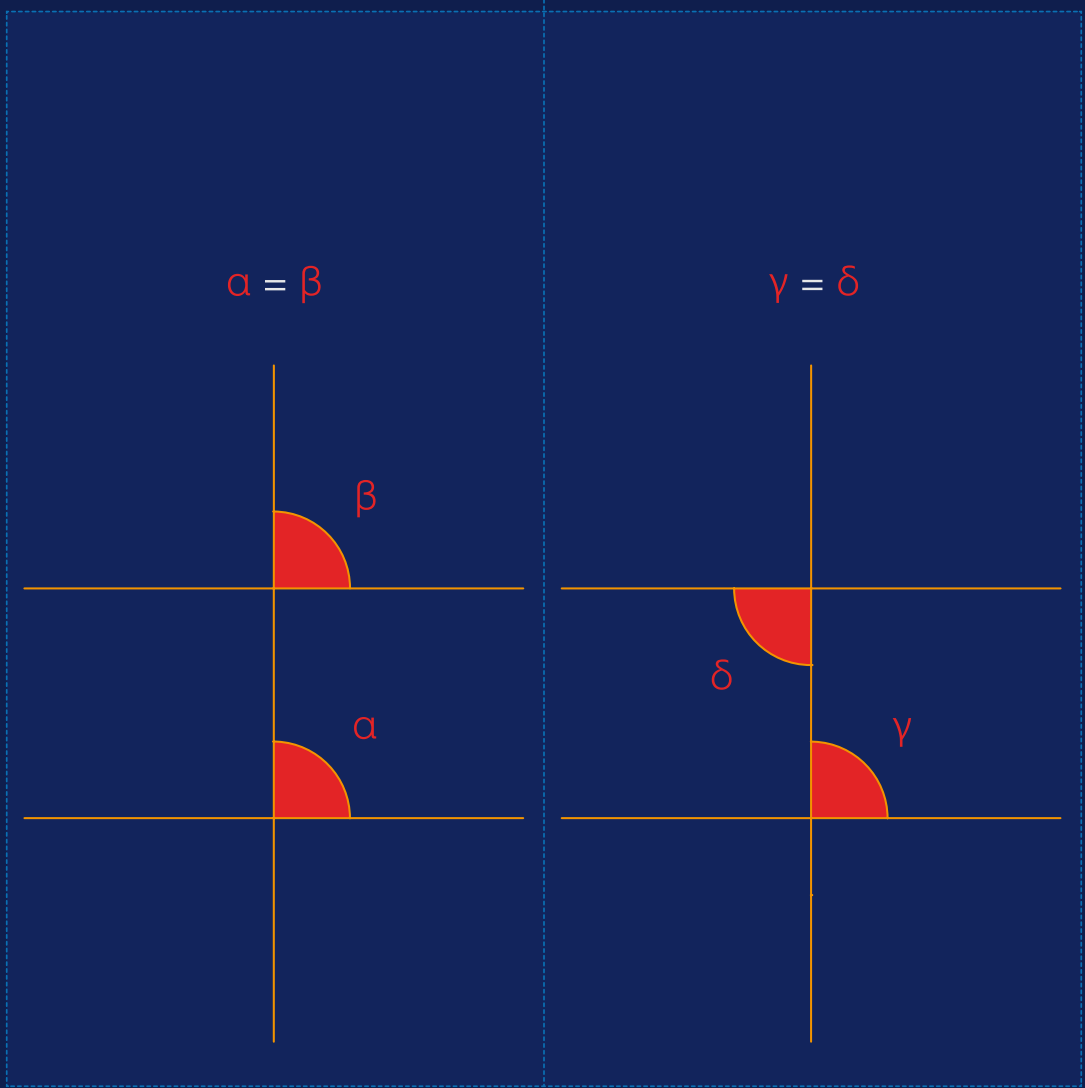
Wechselwinkel

$\gamma = \delta$



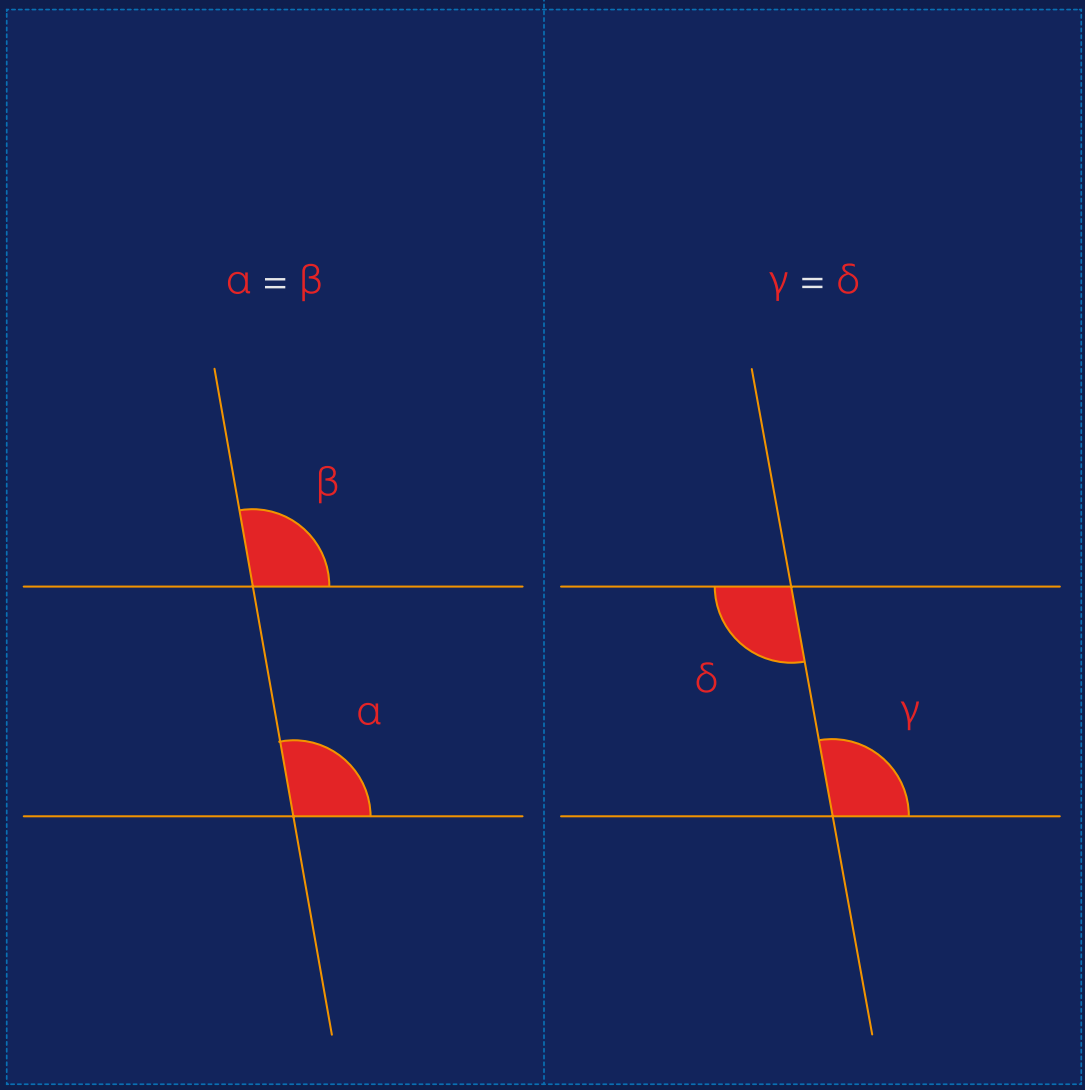
Stufenwinkel

Wechselwinkel



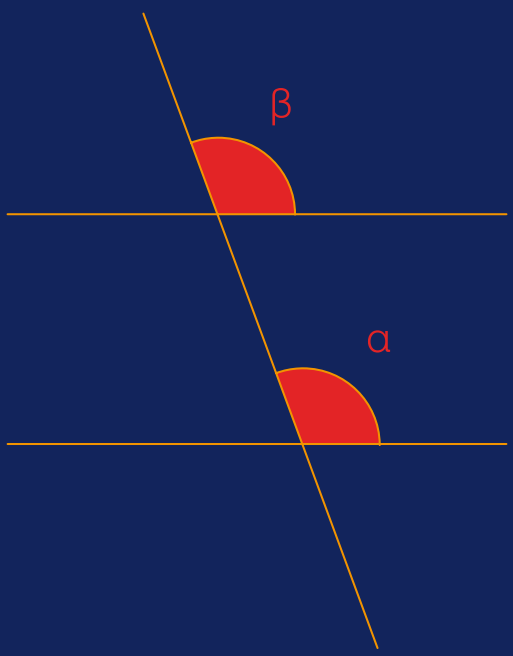
Stufenwinkel

Wechselwinkel



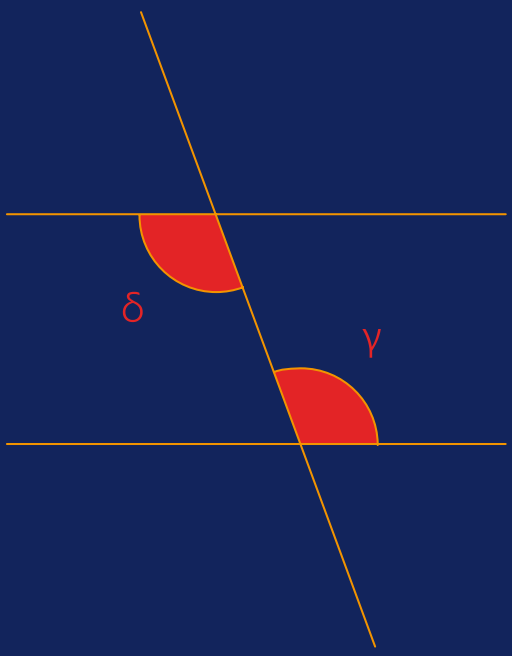
Stufenwinkel

$\alpha = \beta$



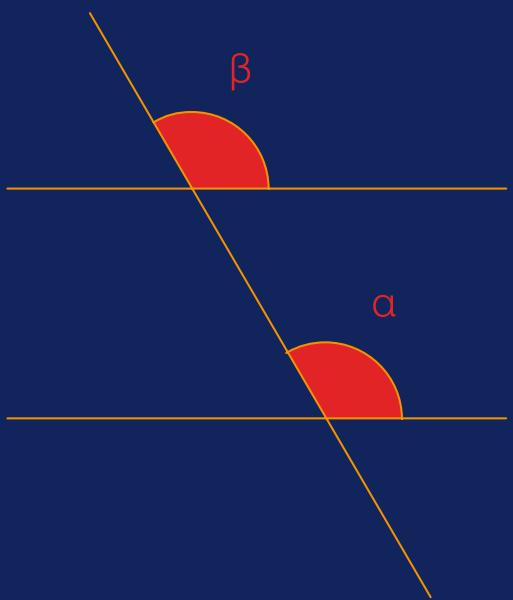
Wechselwinkel

$\gamma = \delta$



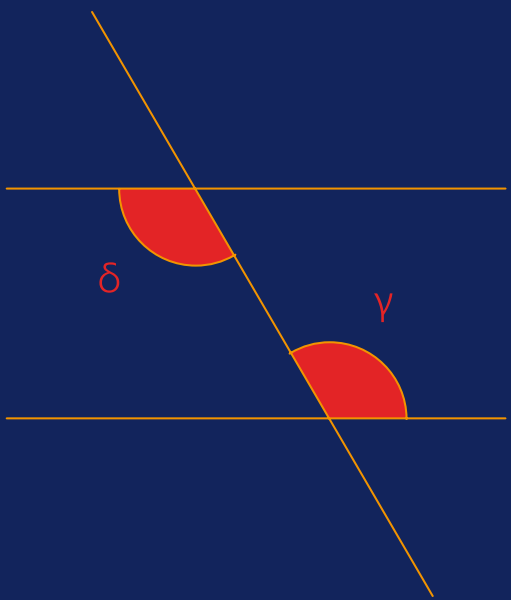
Stufenwinkel

$\alpha = \beta$



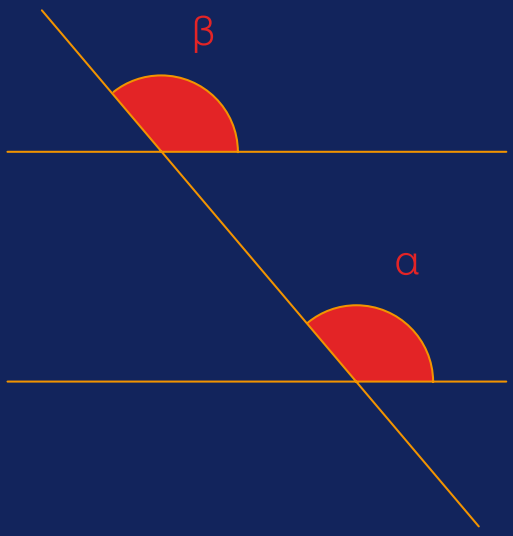
Wechselwinkel

$\gamma = \delta$



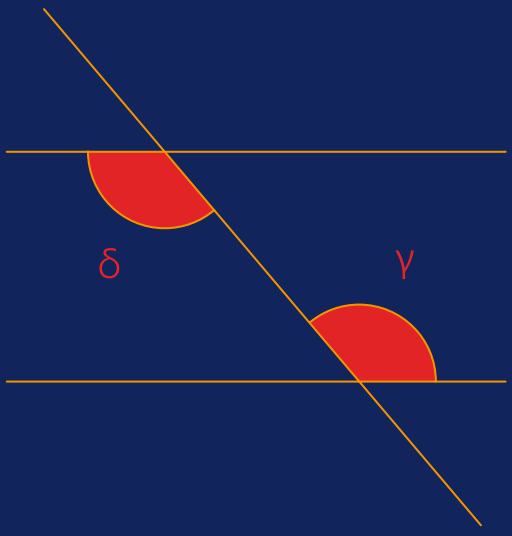
Stufenwinkel

$\alpha = \beta$



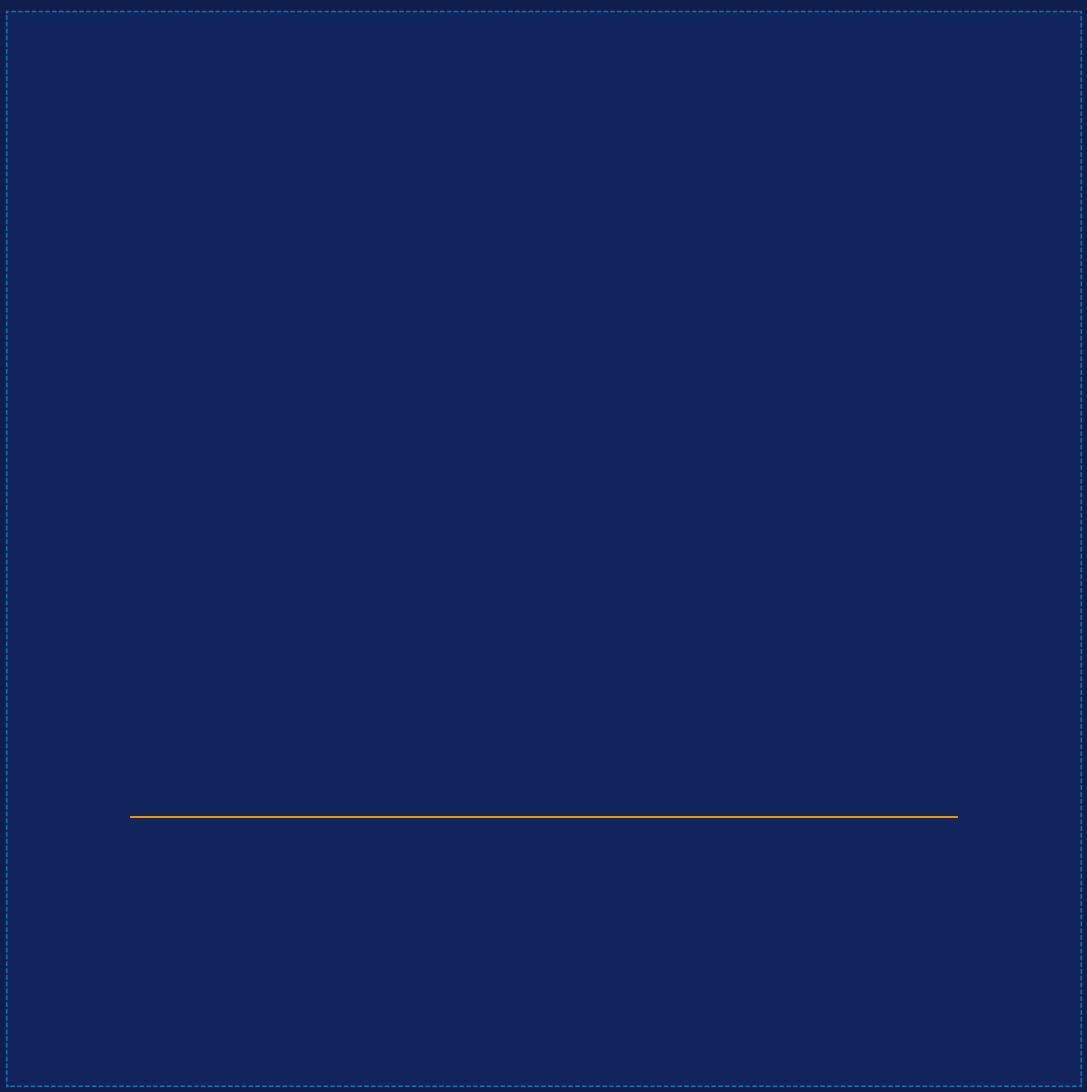
Wechselwinkel

$\gamma = \delta$

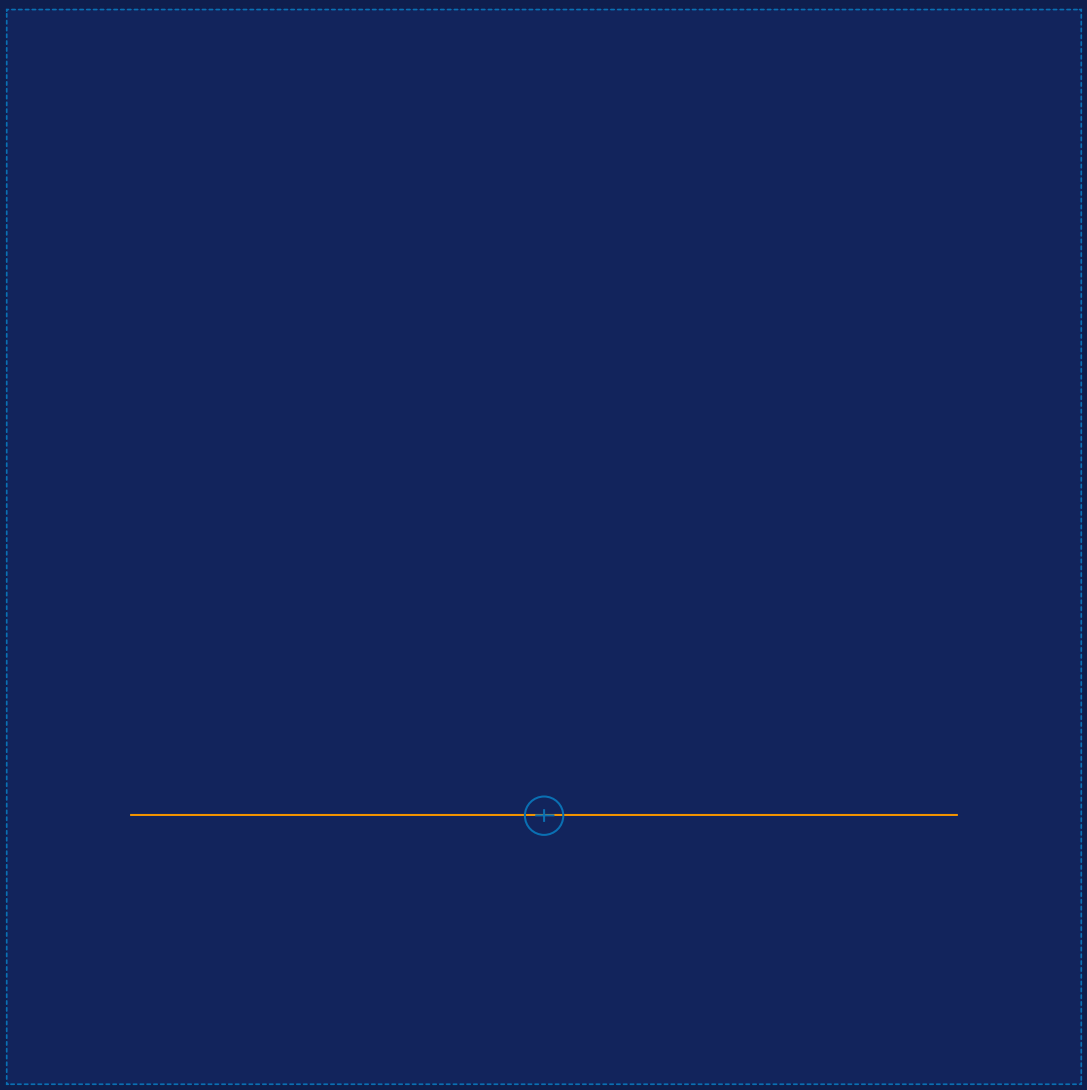


Basiswinkel beim gleichschenkligen Dreieck

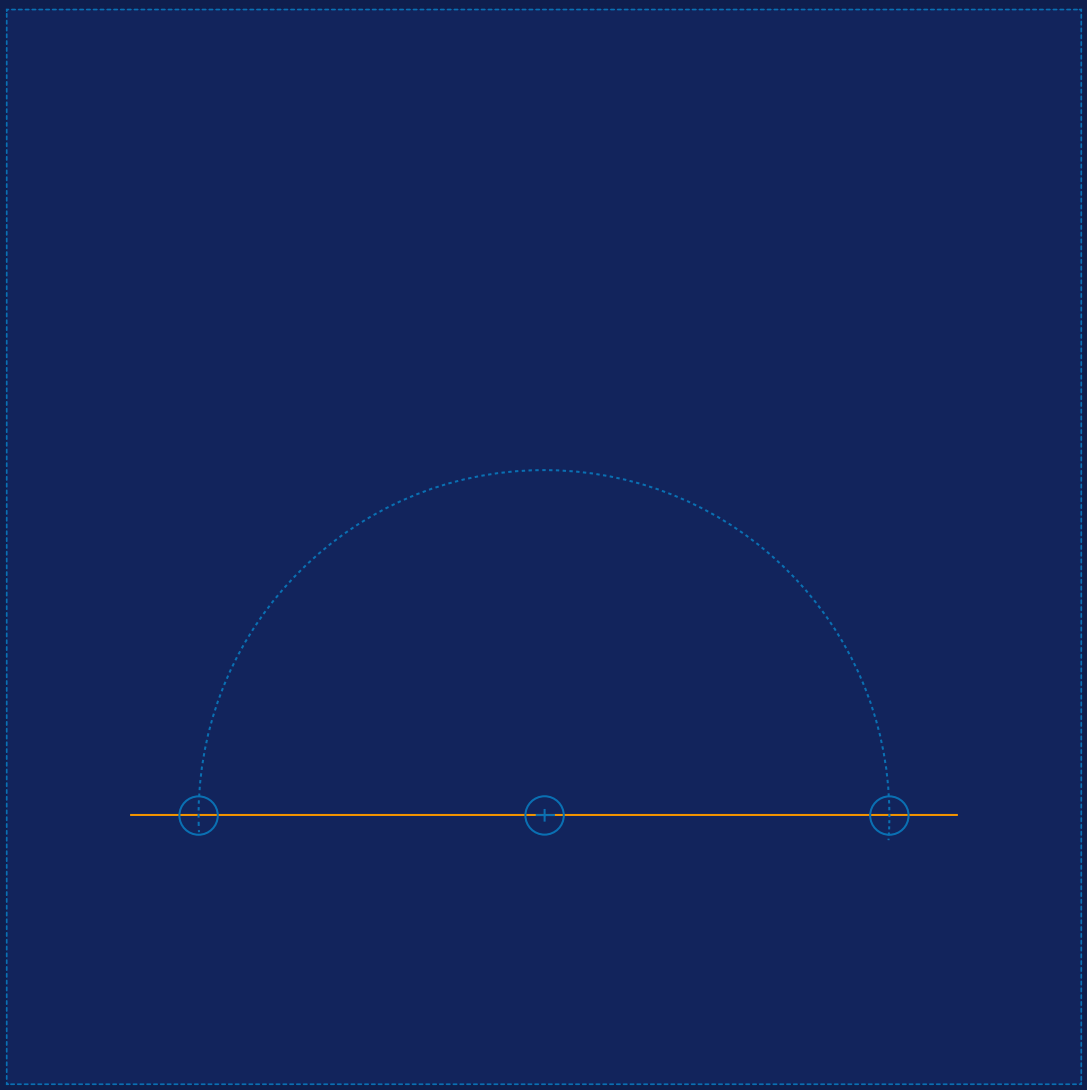
Basiswinkel beim gleichschenkligen Dreieck



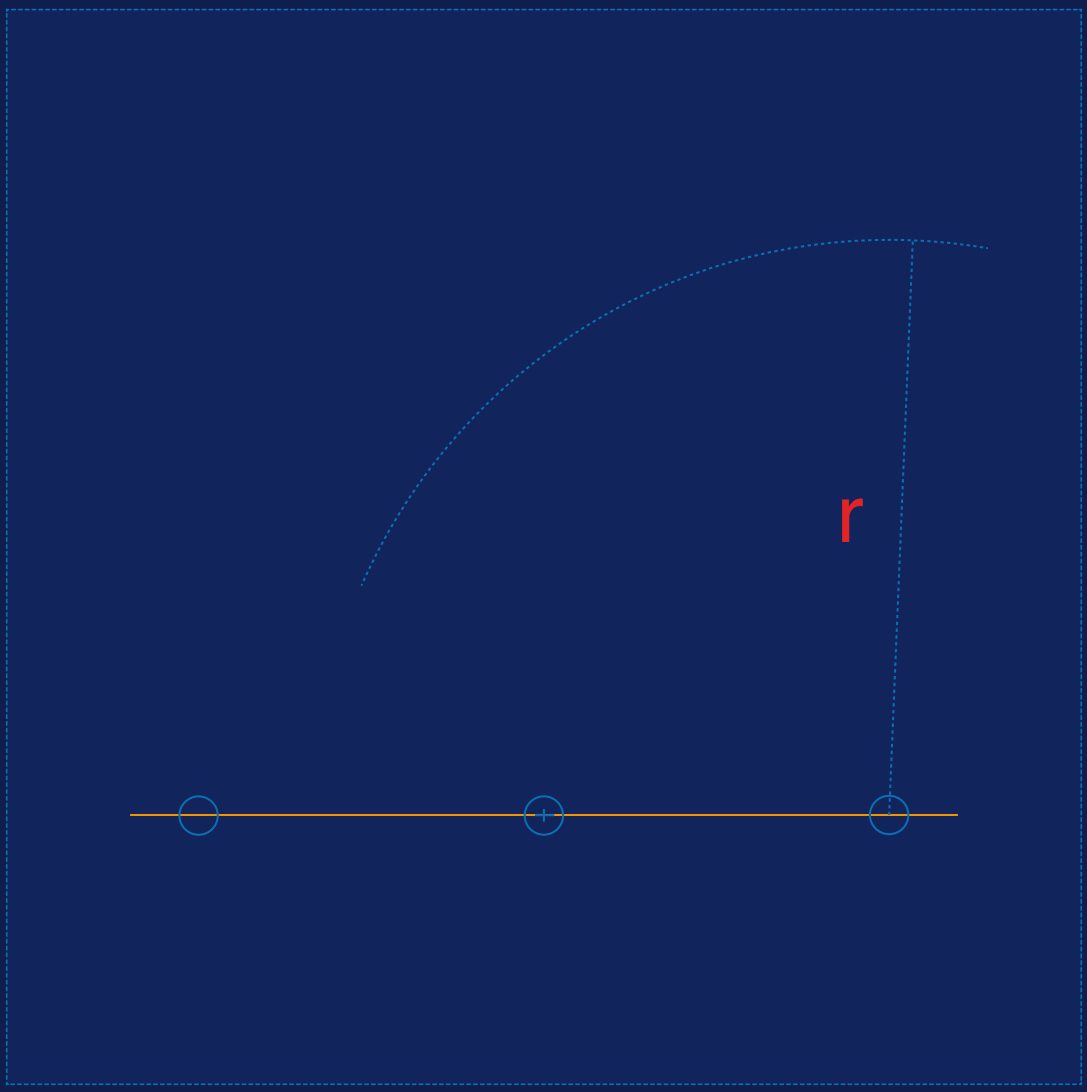
Basiswinkel beim gleichschenkligen Dreieck



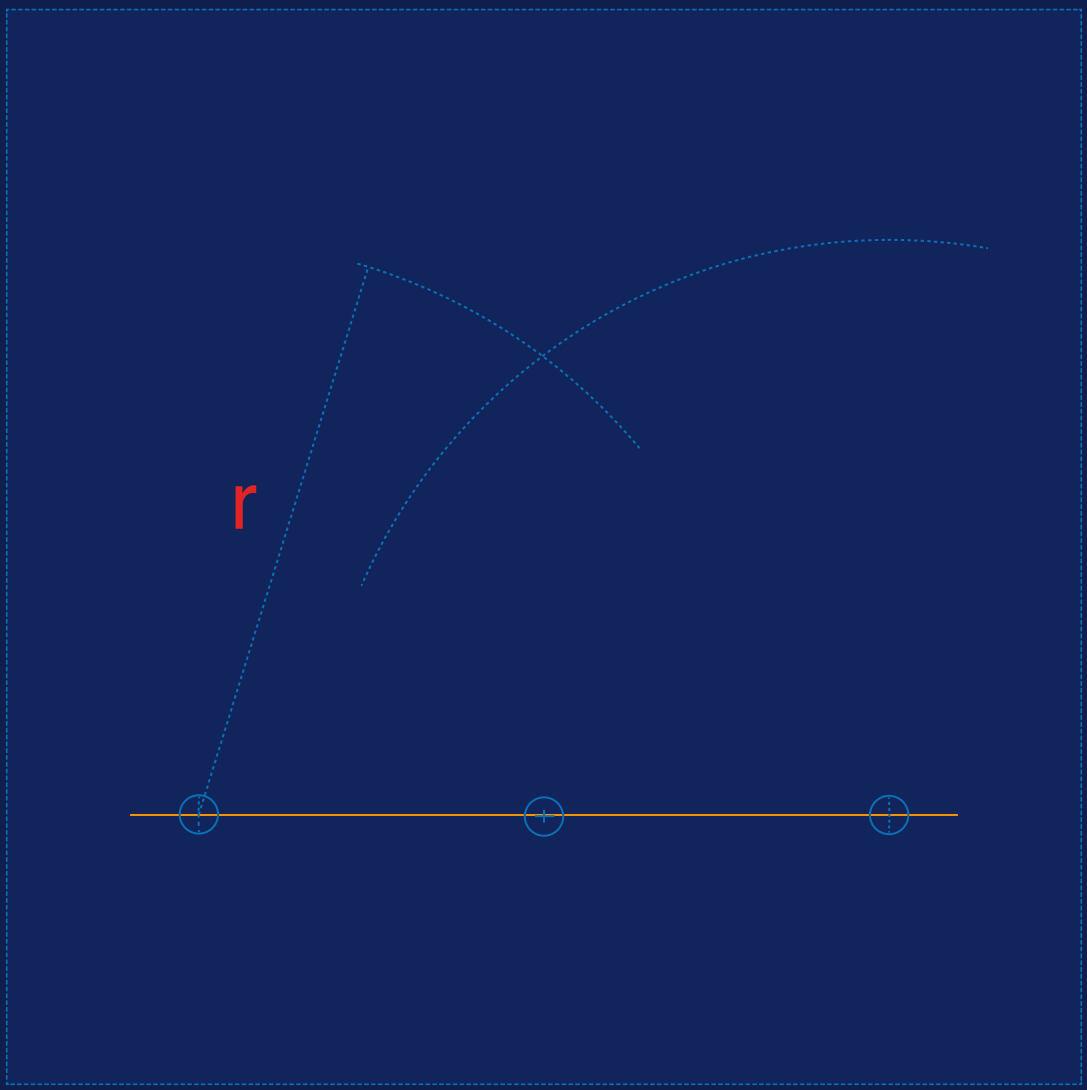
Basiswinkel beim gleichschenkligen Dreieck



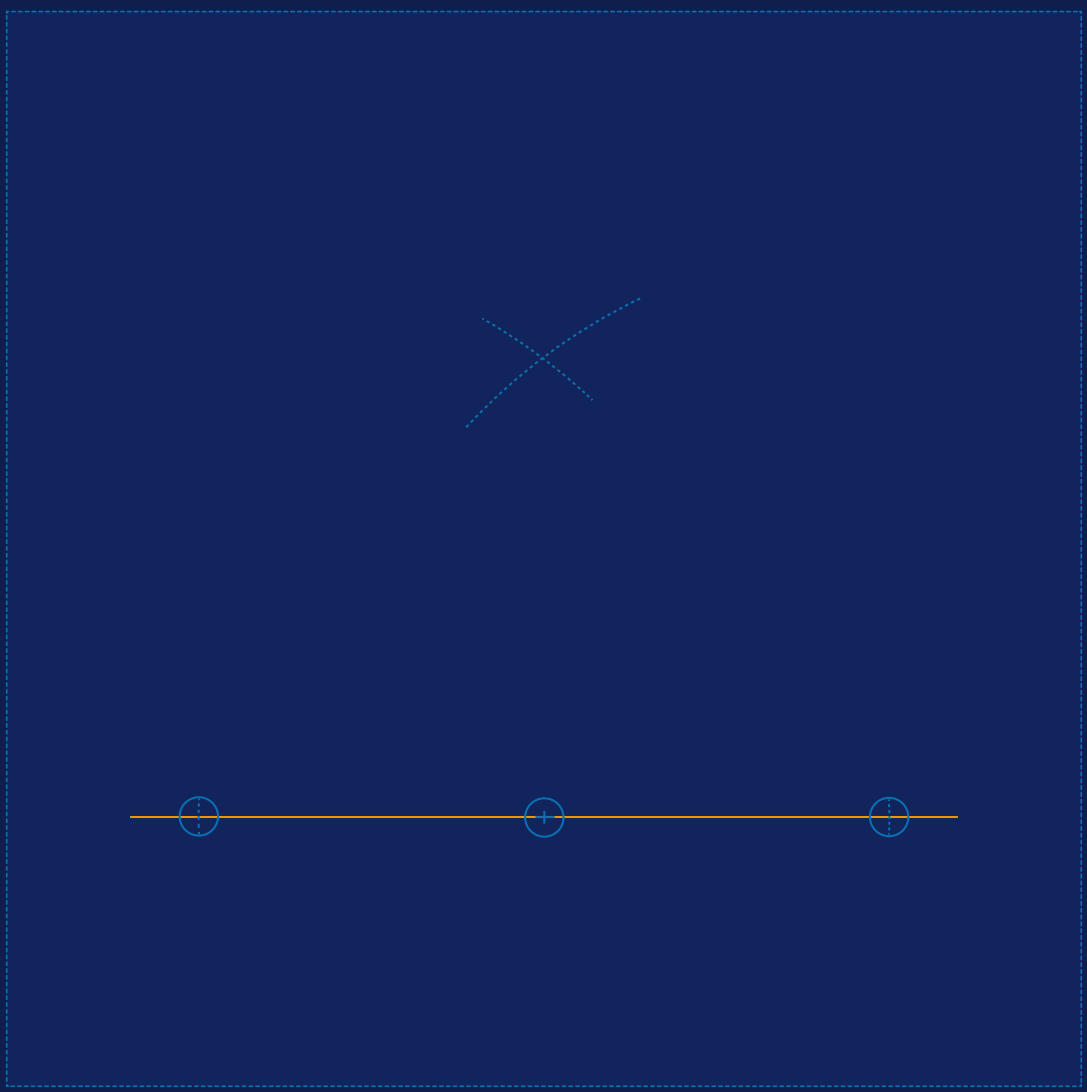
Basiswinkel beim gleichschenkligen Dreieck



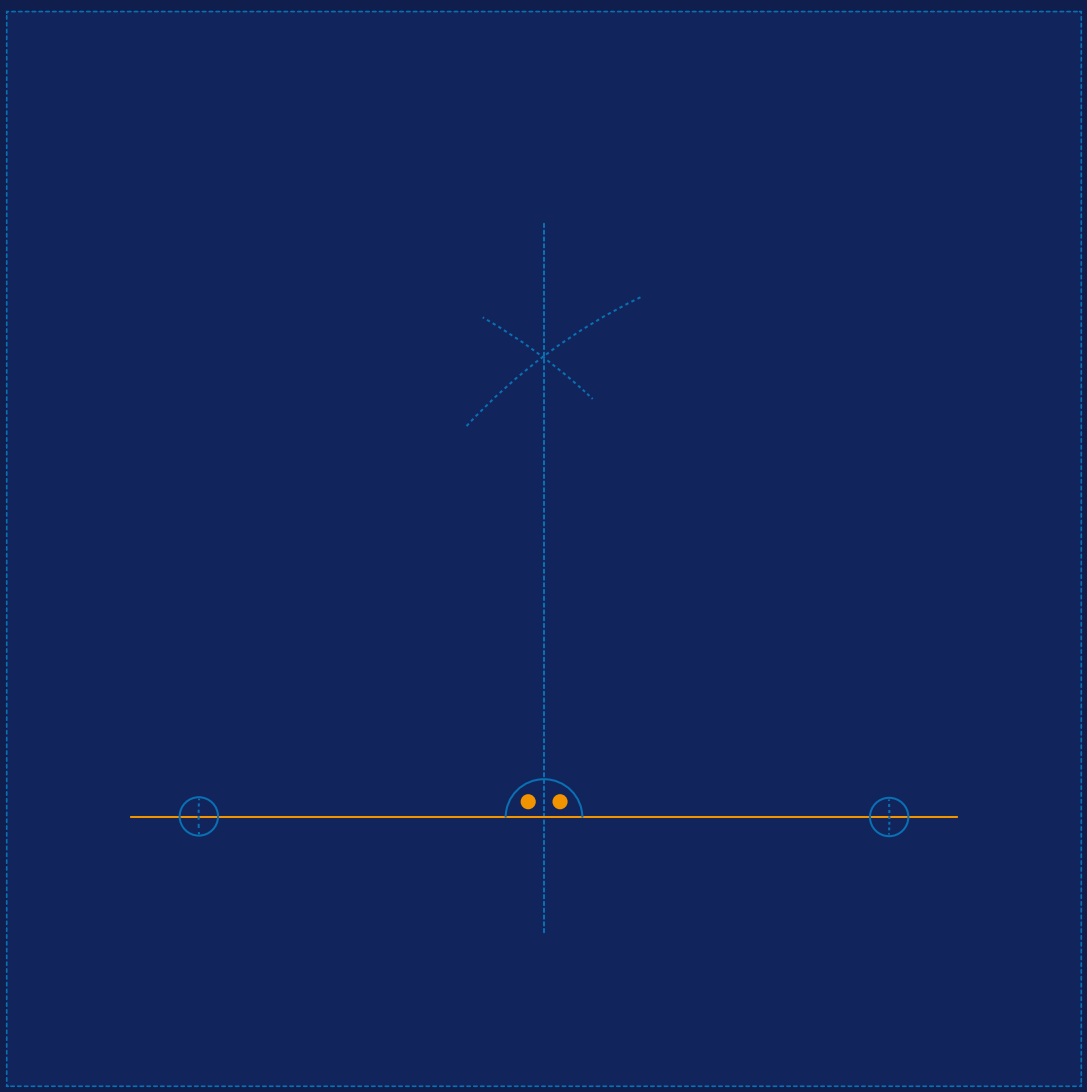
Basiswinkel beim gleichschenkligen Dreieck



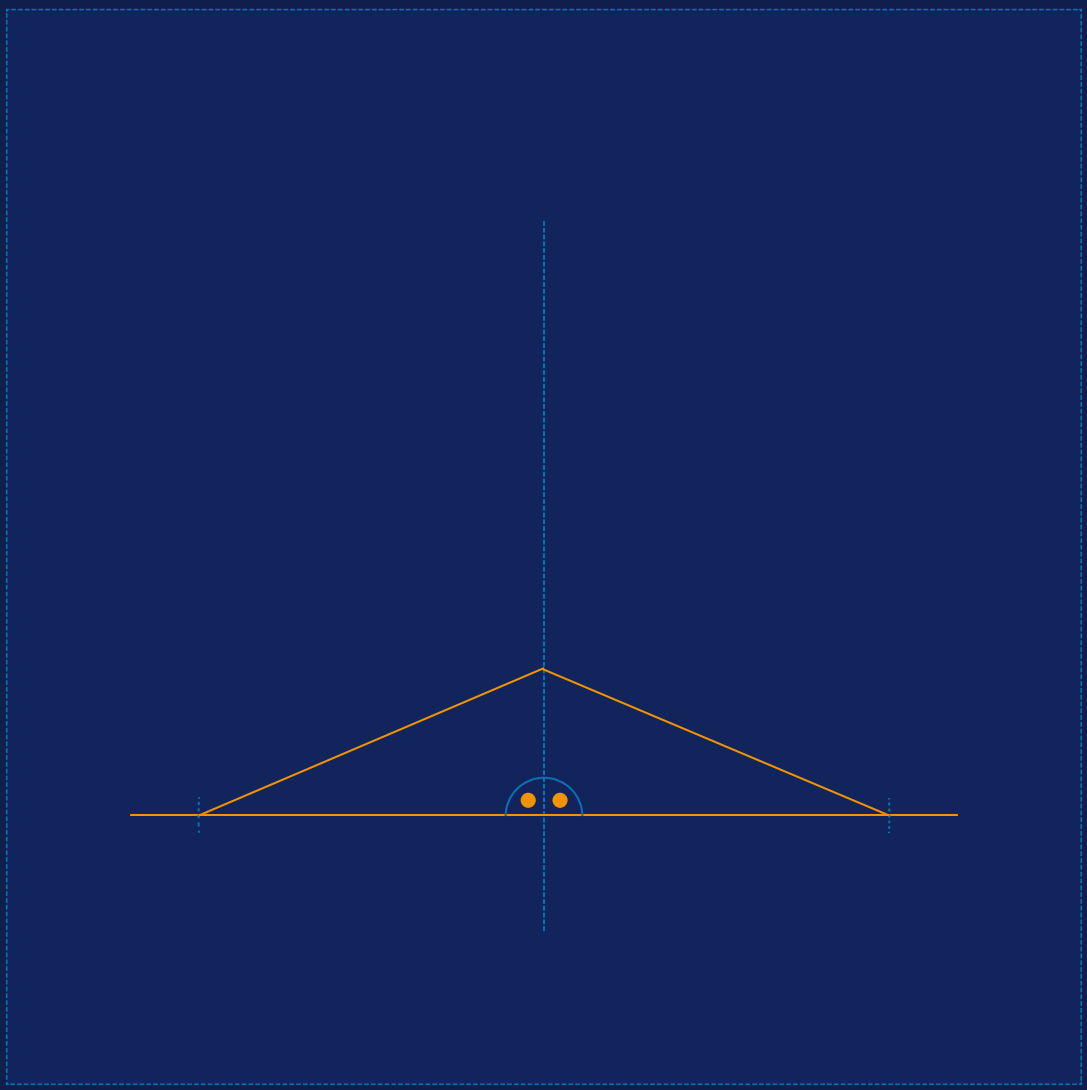
Basiswinkel beim gleichschenkligen Dreieck



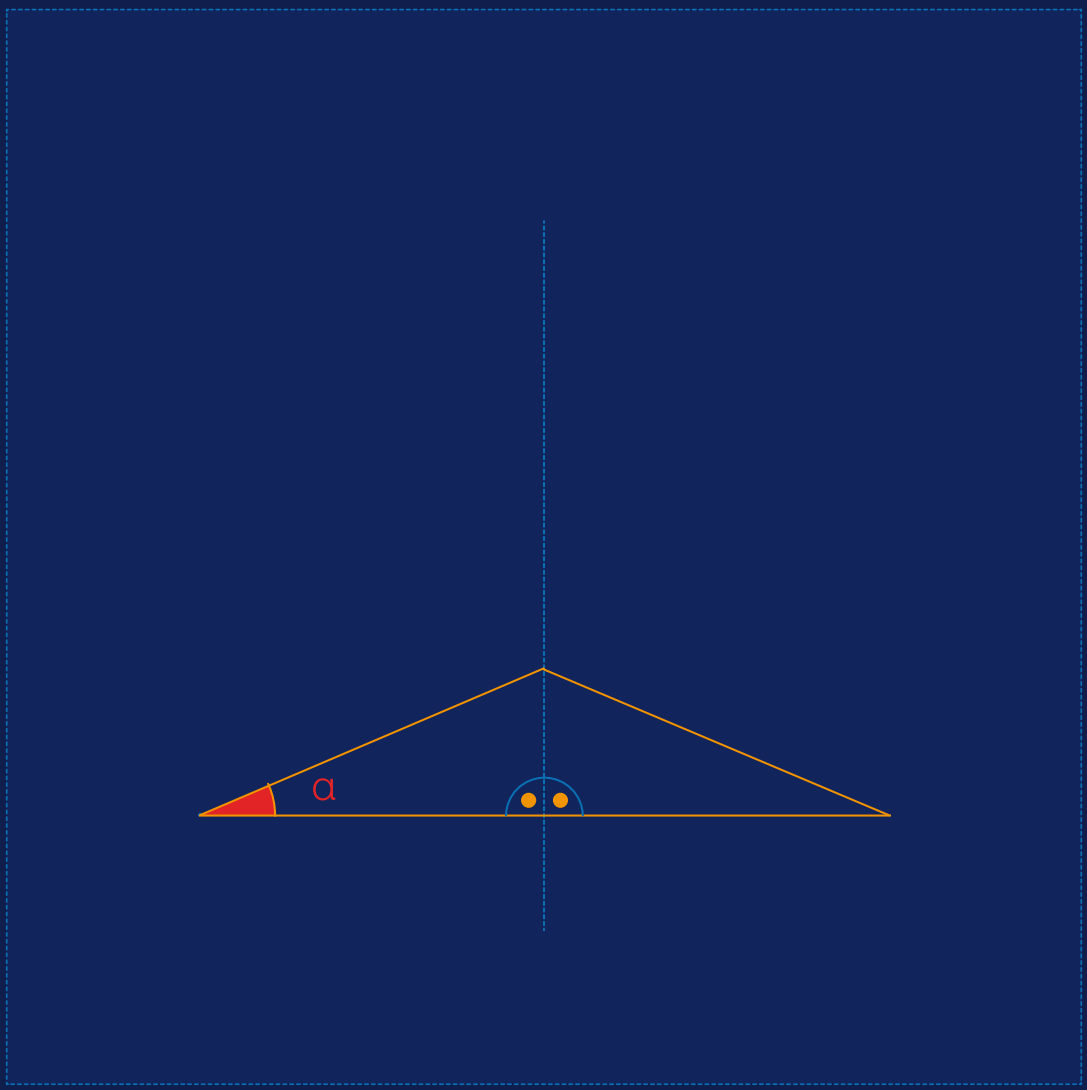
Basiswinkel beim gleichschenkligen Dreieck



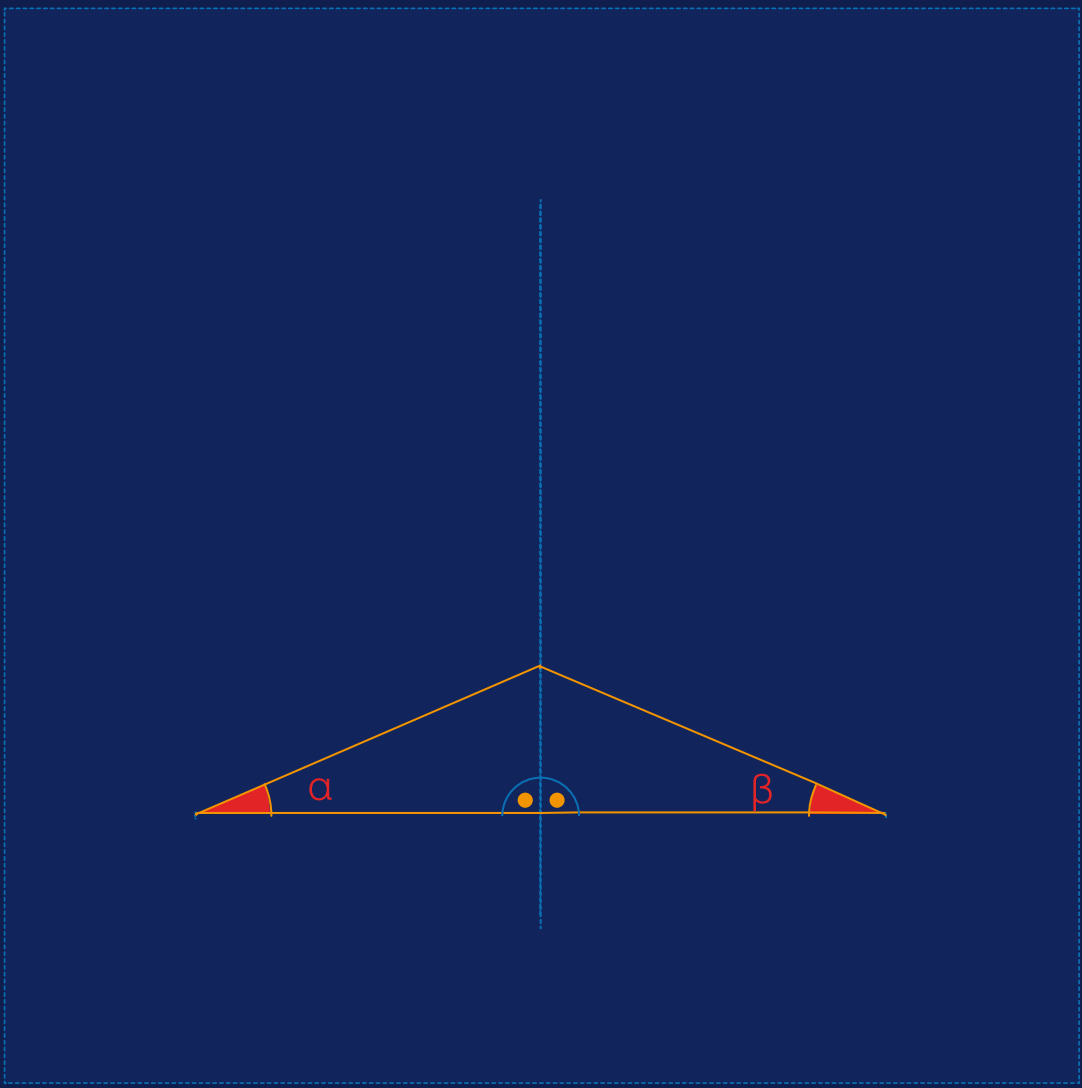
Basiswinkel beim gleichschenkligen Dreieck



Basiswinkel beim gleichschenkligen Dreieck



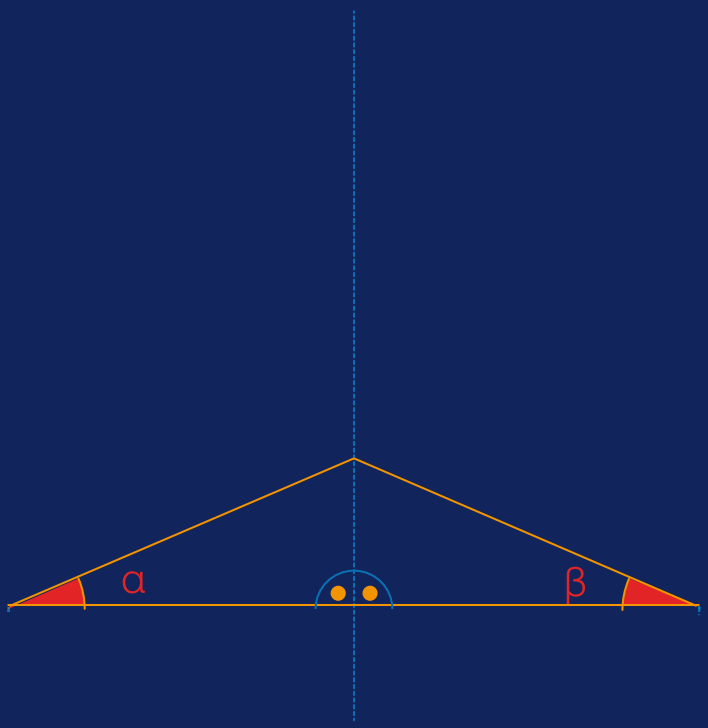
Basiswinkel beim gleichschenkligen Dreieck



Scheitelwinkel

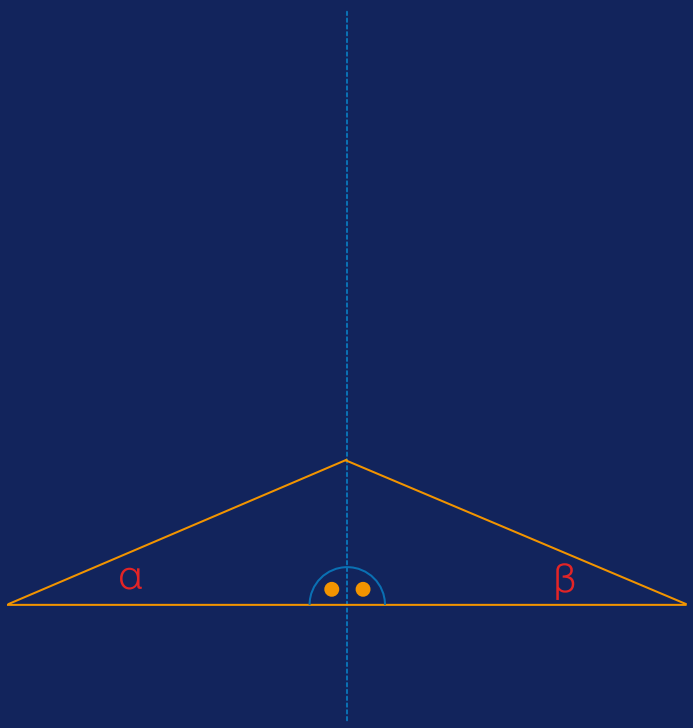
Nebenwinkel

$\alpha = \beta$



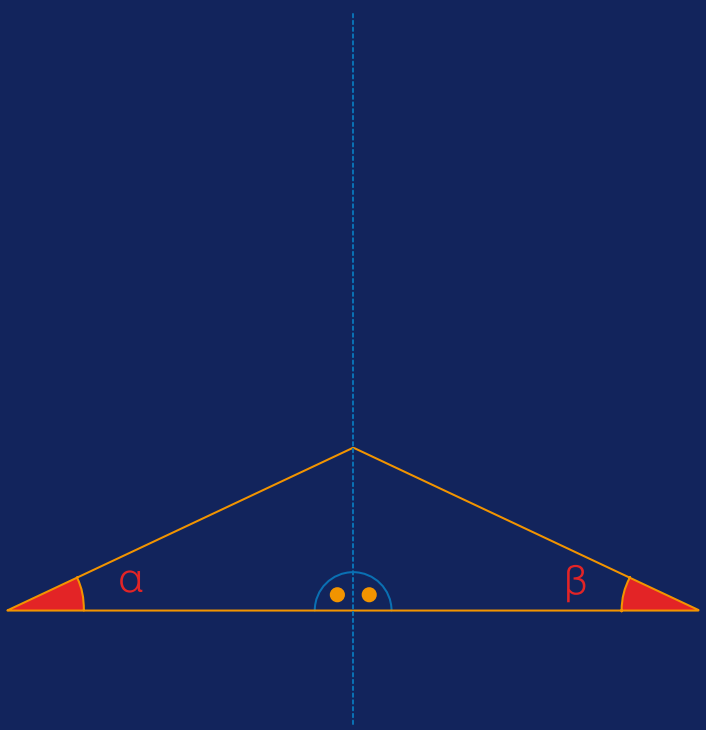
Basiswinkel beim gleichschenkligen Dreieck

$\alpha = \beta$



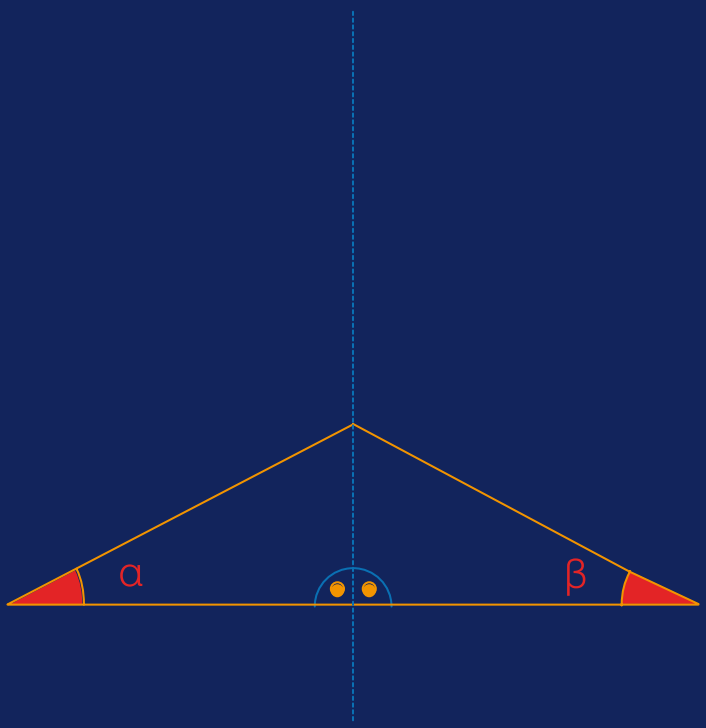
Basiswinkel beim gleichschenkligen Dreieck

$\alpha = \beta$



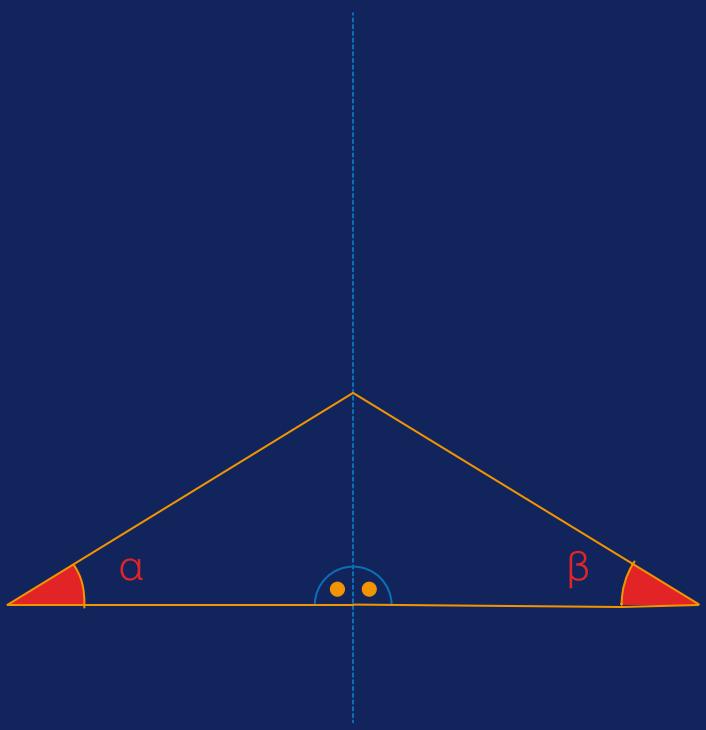
Basiswinkel beim gleichschenkligen Dreieck

$\alpha = \beta$



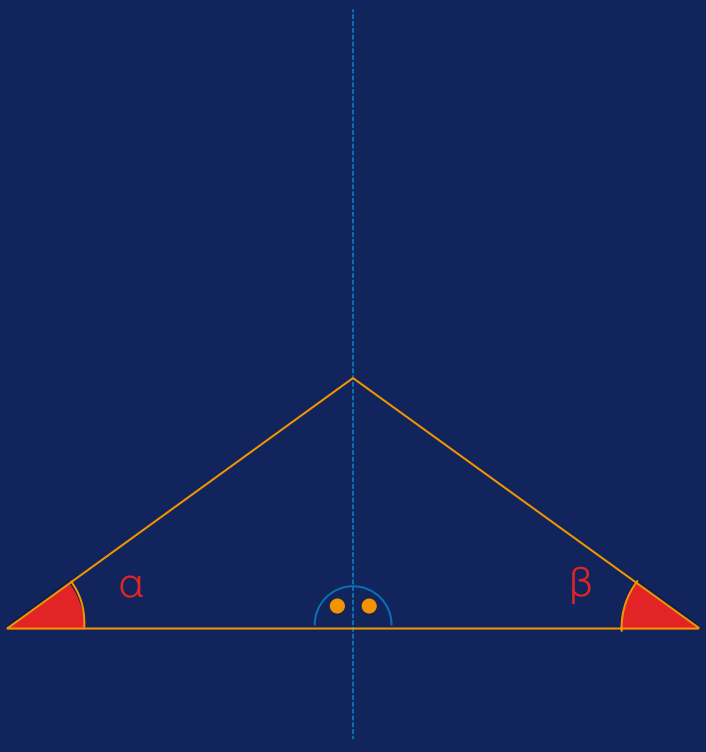
Basiswinkel beim gleichschenkligen Dreieck

$\alpha = \beta$



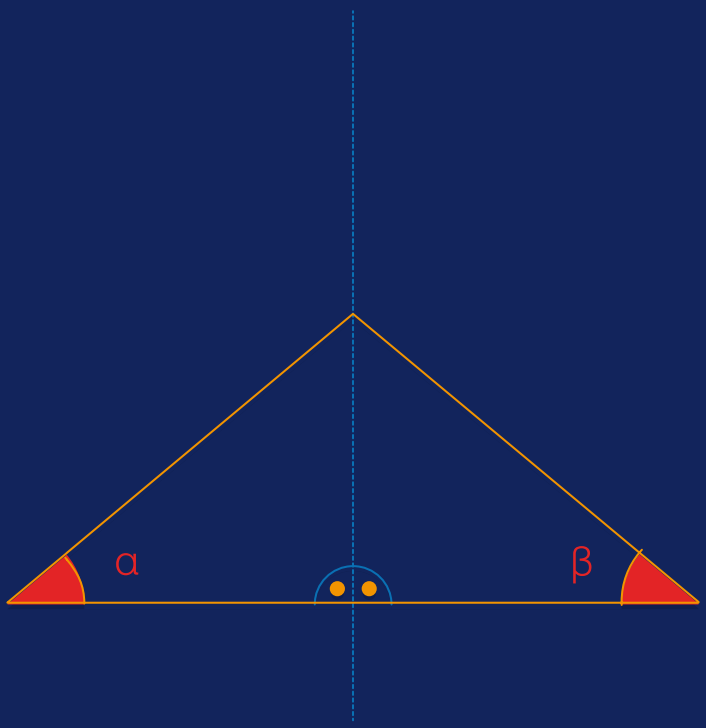
Basiswinkel beim gleichschenkligen Dreieck

$\alpha = \beta$



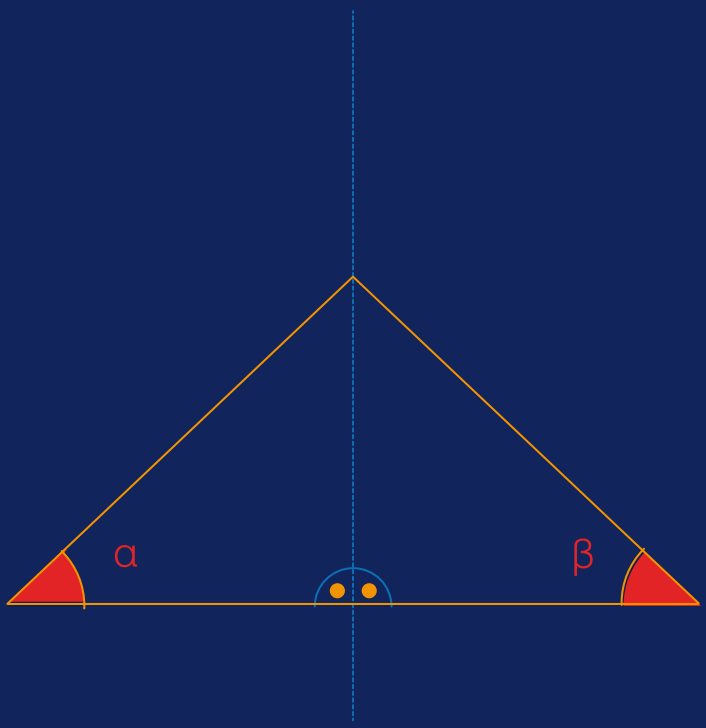
Basiswinkel beim gleichschenkligen Dreieck

$\alpha = \beta$



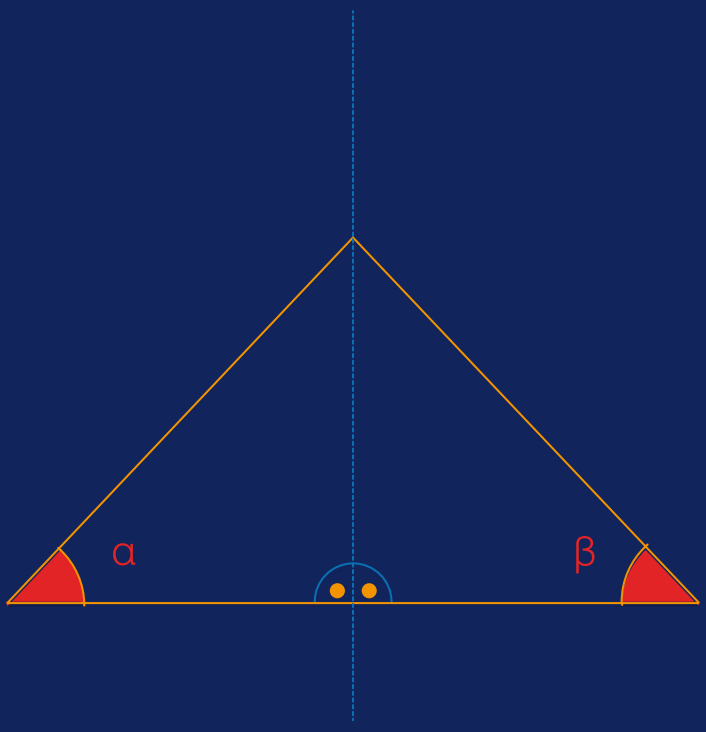
Basiswinkel beim gleichschenkligen Dreieck

$\alpha = \beta$



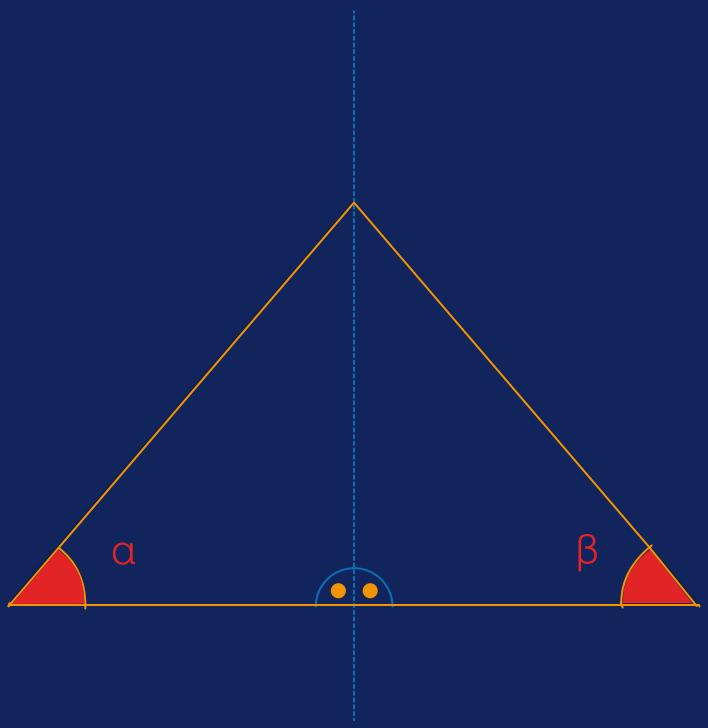
Basiswinkel beim gleichschenkligen Dreieck

$\alpha = \beta$

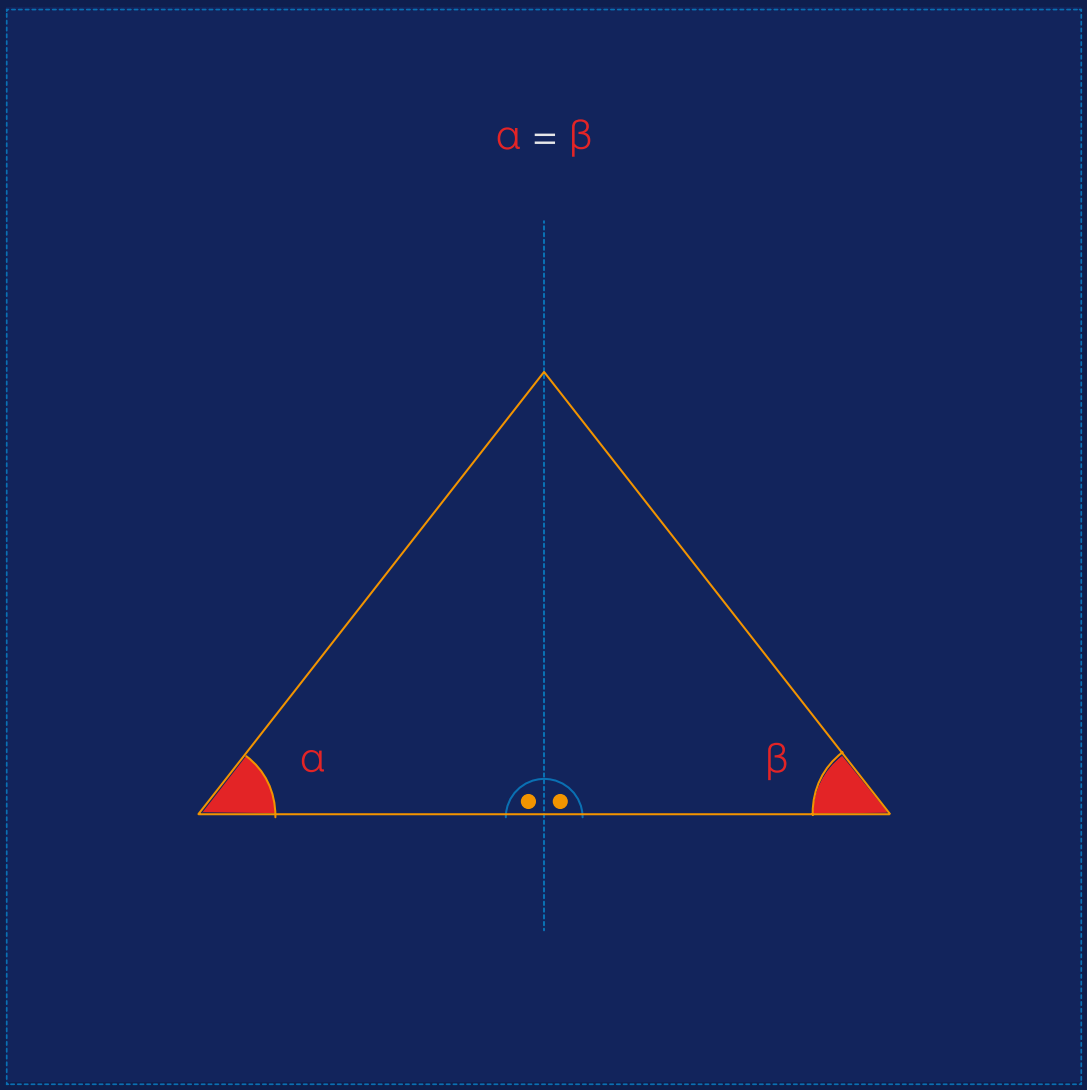


Basiswinkel beim gleichschenkligen Dreieck

$\alpha = \beta$

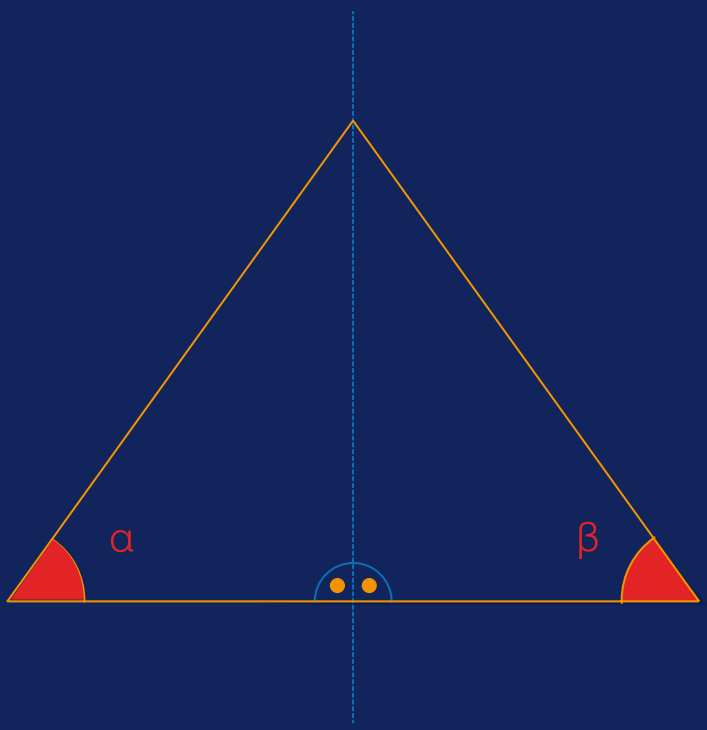


Basiswinkel beim gleichschenkligen Dreieck

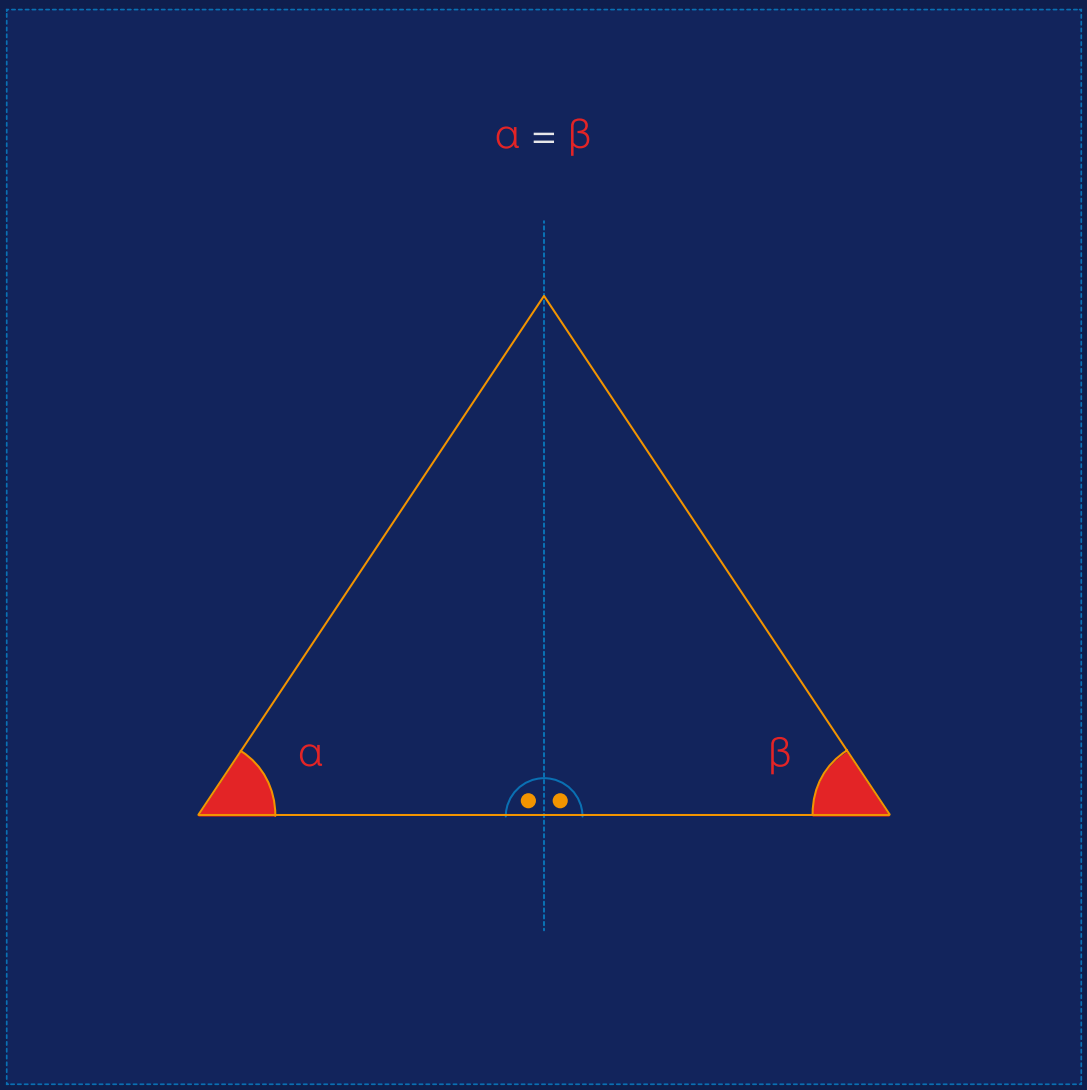


Basiswinkel beim gleichschenkligen Dreieck

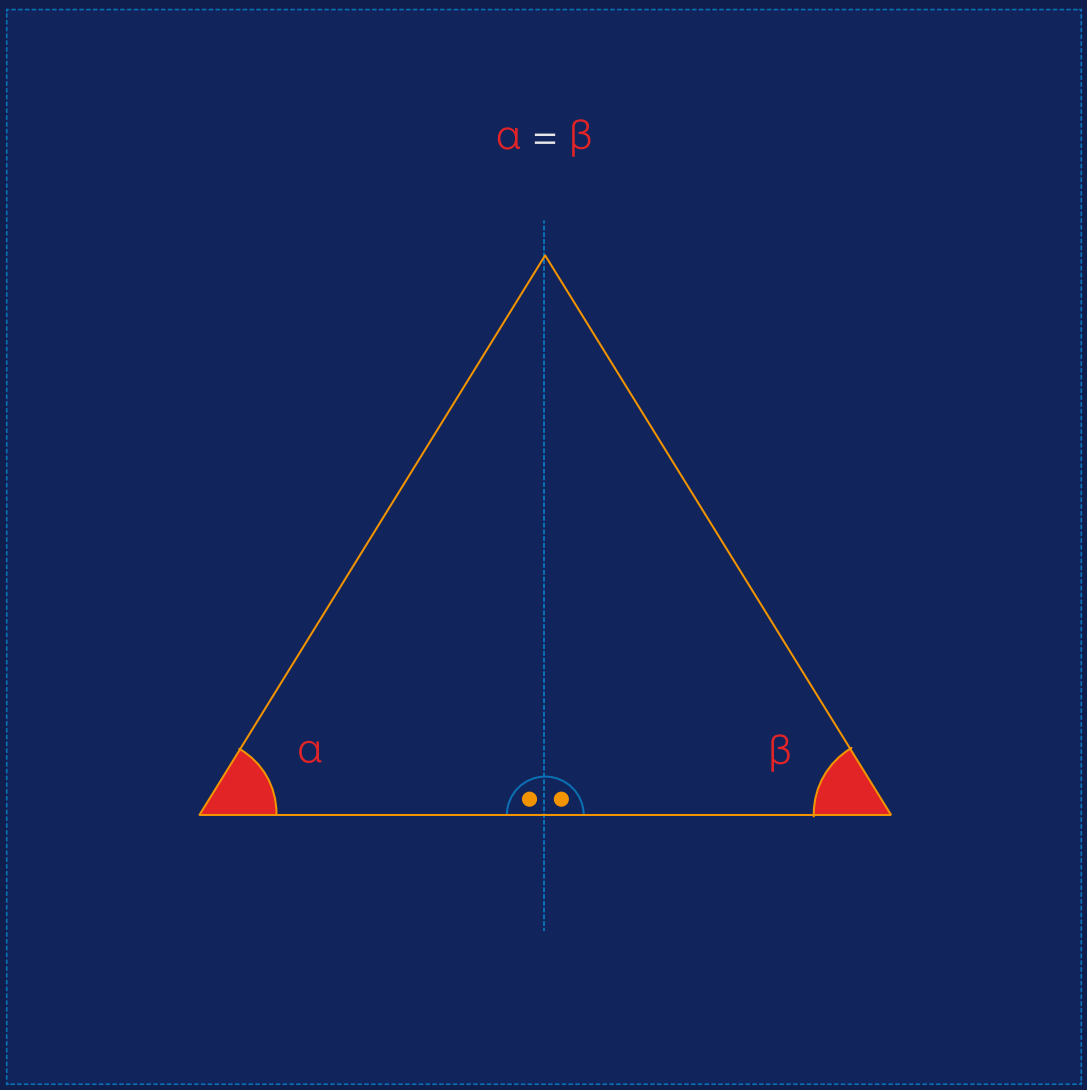
$\alpha = \beta$



Basiswinkel beim gleichschenkligen Dreieck



Basiswinkel beim gleichschenkligen Dreieck



Scheitelwinkel

Nebenwinkel

Mathematik?
Spiel!

realisierte Daumenkinos

- Scheitel-, Neben-, Wechsel-, Stufen-, Basiswinkel
- Winkelsumme im Dreieck
- Thaleskreis (Euklid, Elemente, Buch III)
- Pythagoras, Zerlegung (Euklid, Elemente, Buch I)
- Kathetensatz (Euklid, Elemente, Buch I)
- Höhensatz (Euklid, Elemente, Buch VI u. Buch II)
- Schnitte durch den Würfel
- Verfolgungskurve
- Möndchen des Hippokrates von Chios
- Ellipse im Kreis
- $(a + b + c + ...)^2$
- Hinged Tessellation

Daumenkinos in Planung

- Ellipse, Parabel, Hyperbel
- Hexe der Agnesi
- Satz von Morley
- Sinus
- Satz von Ceva
- Dreiecksgeometrie, Eulergerade
- von der Sekante zur Tangente
- Riemannsches Integral
- Flächenverwandlung
- Sprachspiele
- von 0 bis 100
- ...

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eugenjost@bluewin.ch