

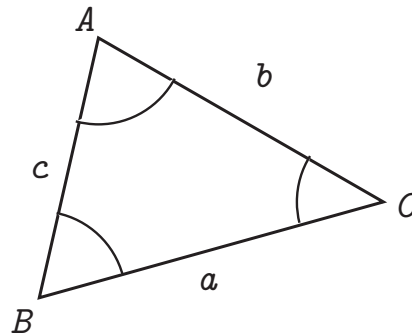
The sine rule and cosine rule

The sine rule

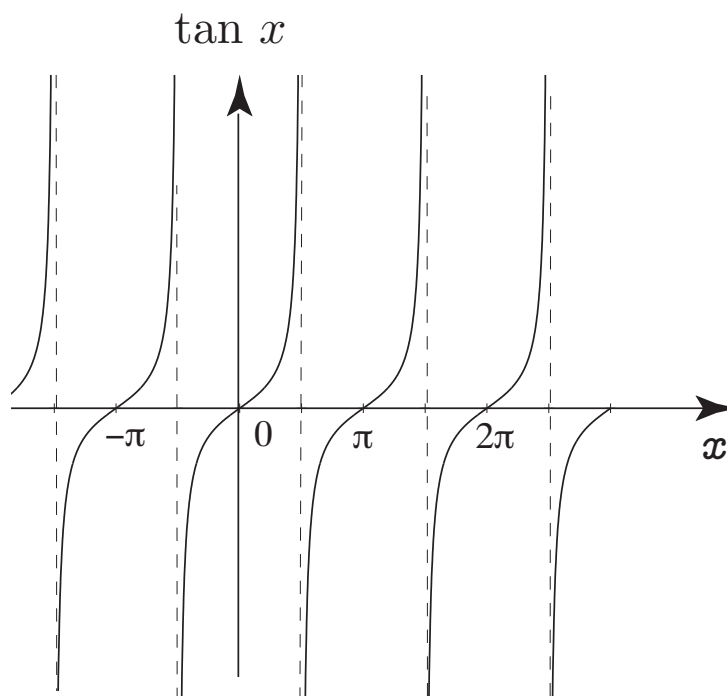
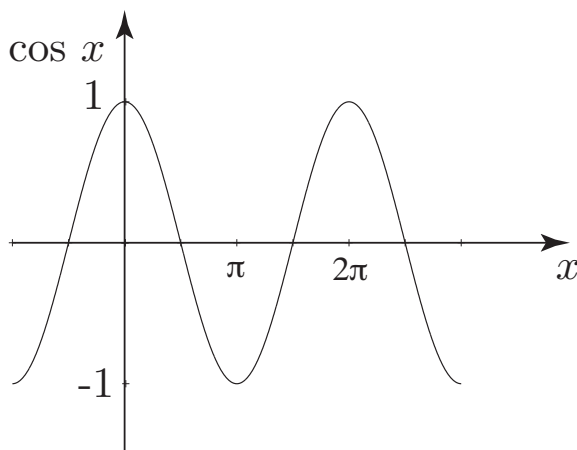
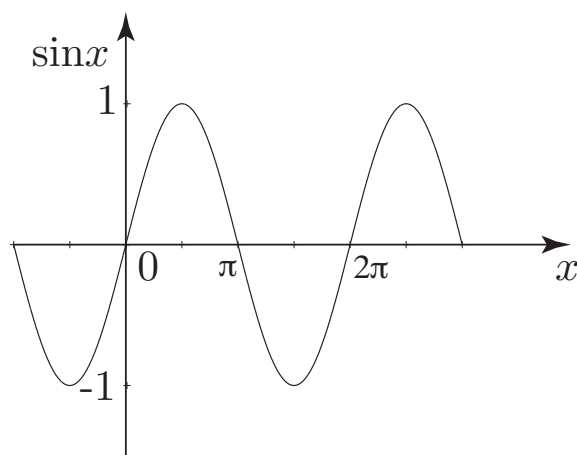
$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

The cosine rule

$$a^2 = b^2 + c^2 - 2bc \cos A$$

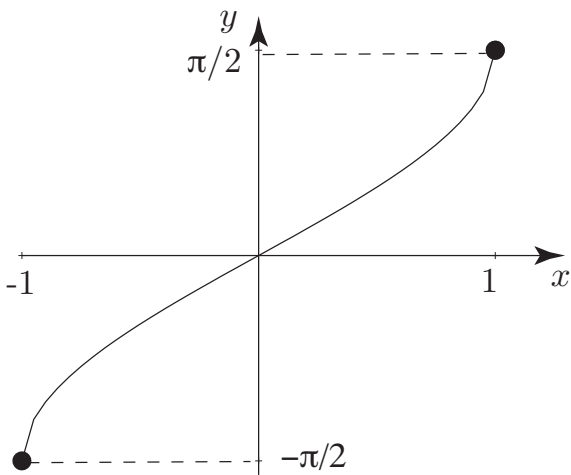


Trigonometric functions

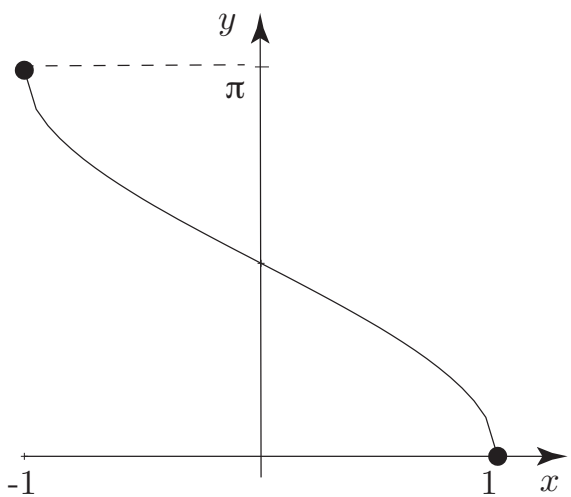


The sine and cosine functions are periodic with period 2π .
The tangent function is periodic with period π .

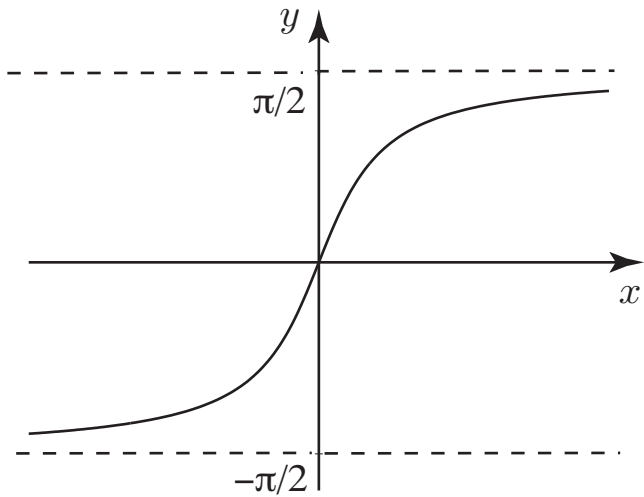
Inverse trigonometric functions



$$y = \sin^{-1} x$$



$$y = \cos^{-1} x$$



$$y = \tan^{-1} x$$