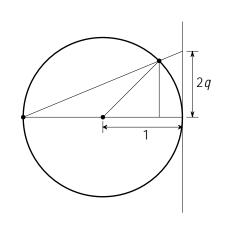
Stereographic Projection



Using similar triangles we have

$$q = \frac{\sin}{1 + \cos}$$
:

Solving for sin and cos yields

$$\cos = \frac{1}{1+q^2}$$
; $\sin = \frac{2q}{1+q^2}$:

Given - = f(x), we have

$$q=\frac{1+q^2}{2}f(x);$$

which can be written as

$$e(q)q = p(q;x);$$

with e() and p() polynomial in q.