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Adjusting an Angle to Another Angle

Function subprogram PROXIM computes, for two angles α, β given as arguments, and by adding a suitable multiple of 2π to β, an angle β^* such that

$$\alpha - \pi \leq \beta^* \leq \alpha + \pi.$$

Structure:

FUNCTION subprogram
User Entry Names: PROXIM

Usage:

In any arithmetic expression,

```
PROXIM(B,A)
```

has the value β^* for B $= \beta$ and A $= \alpha$. PROXIM, B and A are of type REAL and in radians.

Notes:

The Fortran statement function

```
PROXIM(B,A)=B+C1*ANINT(C2*(A-B))
```

with C1 $= 2\pi$, C2 $=$ 1/C1 has the same effect.

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