- 0. APL "scalar" functions + \times ÷ [| \times * 0 ... are defined on single values and generalize in a uniform way to arrays of arbitrary shape and depth.
- 1. We usually assign both a monadic and dyadic function to each of the primitive symbols.
- 2. APL uses dyadic circle for 25 primitive circle (trig) functions

• • •

⁻20 arccos

⁻10 arcsin

00 sqrt(1-n^2)

10 sin

20 cos

. . .

3. A monadic use of Pi-times gives some pleasing expressions:

```
1 2 300÷6 3 4 A sin(pi/6), cos(pi/3), tan(pi/4)
0.5 0.5 1
```

A Engineer's proof that sin-squared + cos-squared = 1:

```
+/(1 2°.000.1×120)*2
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

John