MATH QUICKIES

William Bricken
December 2005

What's the difference between the radius & the diameter?
The radius.

What does (x-a)(x-b)(x-c)...(x-z) equal?
[Hint: check out the 24th factor]

Theorem: 1=2
Proof:

Suppose:	a + b = c
This can be written as:	2a - a + 2b - b = 2c - c
Rearrange:	2a + 2b - 2c = a + b - c
Factor:	2(a + b - c) = (a + b - c)
Divide each side by the same term:	
	2 = 1

Theorem:
1 is the smallest positive number
Proof:

Let the smallest positive number be called	x
x squared is also positive, therefore	x^2 >= x
Divide both sides by the positive number x:	x >= 1

Expand (a+b)^n.

Solution:

```
                (a+b)^n
              ( a + b ) ^ n
            (  a  +  b   )  ^  n
          (   a   +   b   )   ^   n
```