

a derivation proving that 3.14159 is a "legal" Algol number:

```
<number> => <unsigned number>
              => <decimal number>
              => <unsigned integer><decimal fraction>
              => <digit> <decimal fraction>
              => 3 <decimal fraction>
              => 3.<unsigned integer>
              => 3.<unsigned integer><digit>
              => 3.<unsigned integer>9
              => 3.<unsigned integer><digit>9
              => 3.<unsigned integer>59
              => 3.<unsigned integer><digit>59
              => 3.<unsigned integer>159
              => 3.<unsigned integer><digit>159
              => 3.<unsigned integer>4159
              => 3.<digit>4159
              => 3.14159
```