Algorithm 3.1.10 compute x^n

```
1: procedure POWER(n: integer; x: real number)
2:     exponent ← |n|
3:     product ← 1
4:     while exponent > 0 do                ▷ multiply x by itself |n| times
5:         product ← product × x
6:         exponent −= 1
7:     end while
8:     if n < 0 then                        ▷ n is negative so get the inverse
9:         product ← 1/product
10:    end if
11:    return product                       ▷ this product is x^n
12: end procedure
```