1. Rewrite the following pseudocode segment using a loop structure in the specified languages:

```
k = (j + 13) / 27
loop:

if k > 10 then goto out

k = k + 1

i = 3 * k - 1

goto loop

out: . . .

b. Python:

j=1

i=1

k=(j+13)/27

while k <= 10:

k+=1

i=3*k-1
```

2. Redo Programming Exercise 1, except this time make all the variables and constants floating-point type, and change the statement k=k+1 to k=k+1.2

```
i=1.0

k=(j+13.0)/27.0

while k<=10.0:

k+=1.2

i=3.0*k - 1.0
```

3.

j=1.0