

corrigé

5a.

boucle :

```
function v = ATS(x,y,n)
```

```
a = x; b = y; c = b+2a;
```

```
for i = 1 : n do
```

```
    a = b; b = c; c = b+2a;
```

```
end
```

```
v = a
```

```
endfunction
```

5b.

```
function v = G(x,y,n)
```

```
v =  $\frac{1}{3} ((2x - y) (-1)^n + (x + y) 2^n)$ 
```

```
endfunction
```

5c. G est plus efficace car il n'y a pas d'itération.