

1 pt. 8. Given the pseudocode below, write the definition for a function $f(N)$ that calculates the number of times line 6 would execute.

```

1   x := 0
2   while x < 20
3       begin
4           x := x + 1
5           for i = 1 to (N + 1)
6               ai = ai - 1
7       end

```

$$\begin{aligned}
 f(N) &= 20(N+1) \\
 &= 20N + 20
 \end{aligned}$$