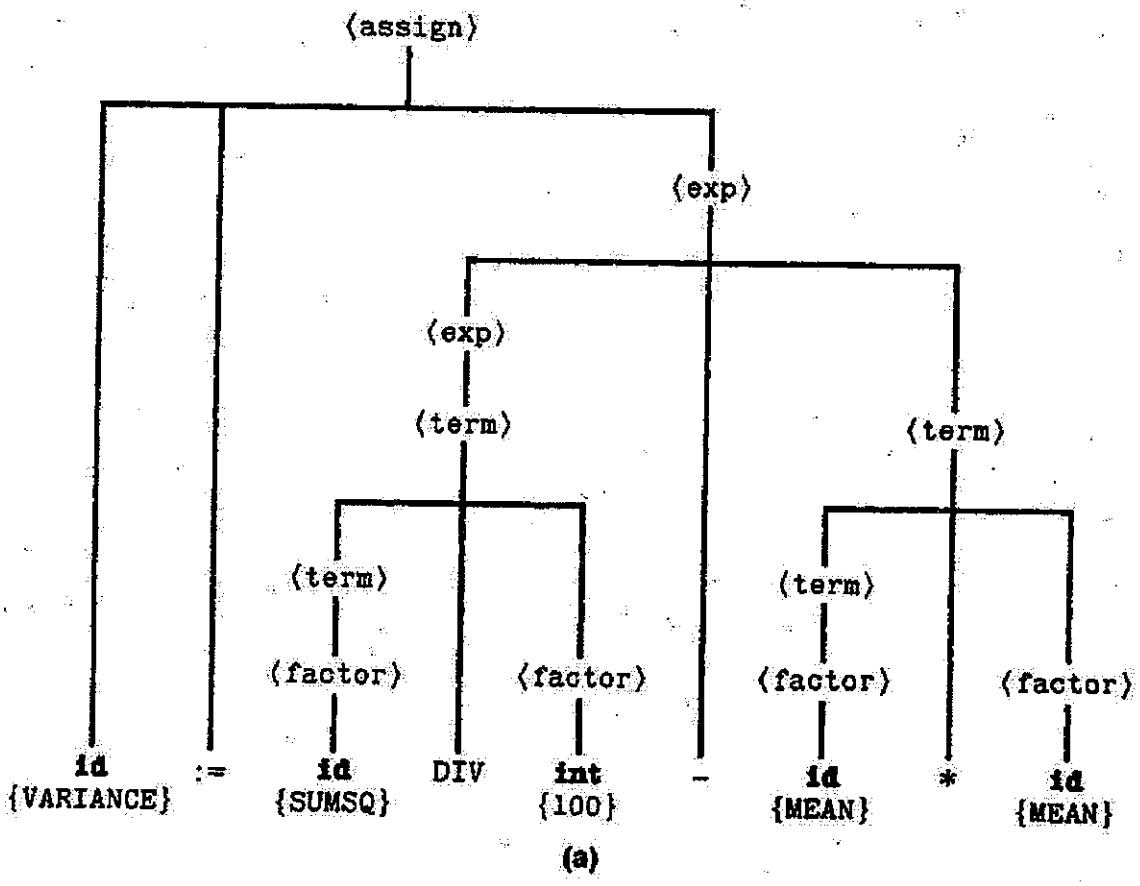

(a)

```
<assign> ::= id := <exp>

                GETA ( <exp> )
                generate [STA    S(id)]
                REGA := null


<exp> ::= <term>

                S(<exp>) := S(<term>)
                if S(<exp>) = rA then
                    REGA := <exp>


<exp>1 ::= <exp>2 + <term>

                if S(<exp>2) = rA then
                    generate [ADD    S(<term>)]
                else if S(<term>) = rA then
                    generate [ADD    S(<exp>2)]
                else
                    begin
                        GETA (<exp>2)
                        generate [   ADD    S(<term>)]
                    end
                S(<exp>1) := rA
                REGA := <exp>1
```

Figure 5.19 Code generation for an assignment statement.