b) quotient = 0, x = 6:

4.8 Identify and correct the errors in each of the following:

```
a) while (c \le 5)
               product *= c;
                  ++c;
b) if ( gender == 1)
      Console.WriteLine("Woman");
else;
      Console.WriteLine( "Man" );
```

- a) Error: Missing the closing right brace of the while body. Correction: Add closing right brace after the statement ++c;.
- b) Error: Semicolon after else results in a logic error. The second output statement will always be executed.

Correction: Remove the semicolon after else.

4.9 What is wrong with the following while repetition square?

while (z >= 0)
sum += z;

The variable z is lever changed in the while structure. Therefore the loop continuation.

inged in the while structure. Therefore, if the loopcontinuation

condition ($z \ge 0$) is true, an infinite loop is created. To prevent the infinite loop, z must be decremented so that it eventually becomes less than 0.