CHAPTER 2

2.1 Two possible versions can be developed:

```
IF x ≥ 10 THEN              IF x ≥ 10 THEN
  DO                          DO
    x = x - 5                   x = x - 5
    IF x < 50 EXIT              IF x < 50 EXIT
  END DO                      END DO
ELSE                        ELSEIF x < 5
  IF x < 5 THEN               x = 5
    x = 5                   ELSE
  ELSE                        x = 7.5
    x = 7.5                 ENDIF
  END IF
ENDIF
```

2.2

```
DO
  i = i + 1
  IF z > 50 EXIT
  x = x + 5
  IF x > 5 THEN
    y = x
  ELSE
    y = 0
  ENDIF
  z = x + y
ENDDO
```

2.3 Students could implement the subprogram in any number of languages. The following VBA program is one example. It should be noted that the availability of complex variables in languages such as Fortran 90 would allow this subroutine to be made even more concise. However, we did not exploit this feature, in order to make the code more compatible with languages that do not support complex variables.

```
Option Explicit

Sub Rootfind()
Dim ier As Integer
Dim a As Double, b As Double, c As Double
Dim r1 As Double, i1 As Double, r2 As Double, i2 As Double
a = 7: b = 6: c = 2
Call Roots(a, b, c, ier, r1, i1, r2, i2)
If ier = 0 Then
  MsgBox "No roots"
ElseIf ier = 1 Then
  MsgBox "single root=" & r1
ElseIf ier = 2 Then
  MsgBox "real roots = " & r1 & ", " & r2
ElseIf ier = 3 Then
  MsgBox "complex roots =" & r1 & "," & i1 & " i" & "; "_
                           & r2 & "," & i2 & " i"
End If
End Sub

Sub Roots(a, b, c, ier, r1, i1, r2, i2)
Dim d As Double
r1 = 0: r2 = 0: i1 = 0: i2 = 0
```

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