Visual Basic
Tracing While Loops Worksheet #3

Name -
Period -

Trace the following code segments. Assume all undeclared variables are initialized to zero. If an error would occur, explain it. If an infinite loop occurs, write "infinite loop".

1. Assume the user inputs the values 20, 9, 15, -1 intSum intNum

```
intSum = 0
intNum = 0
blnExitLoop = False

While (blnExitLoop = False)
    intSum += intNum
    intNum = InputBox("Enter a number: ")

    If (intNum = -1) Then
        blnExitLoop = True
    End If

End While
```

2. Assume the user inputs the values 20, 9, 15, -1 intSum intNum

```
intNum = 0
intSum = 0
blnExitLoop = False

While (Not blnExitLoop)
   intNum = InputBox("Enter a number: ")

   If (intNum = -1) Then
       blnExitLoop = True
   Else
       intSum += intNum
   End If

End While
```

3. intNum intSum

```
intNum = 1
intSum = 0

While (intNum < 5)
   intSum += Math.Pow(2, intNum)
   intNum += 1
End While
```

4. intNum intSum

```
intSum = 29
intNum = 0

While (intSum > 0)
   intSum -= intNum

   If (intSum Mod 7 = 0)
      Exit While
   Else
      intNum += 1
   End If

End While
```