**Hand Calculations Matches, but Incorrect**

Function tank(H As Double, R As Double, d As Double) As Double

If d > (H - R) Then

tank = ((4 \* 4 \* Atn(1)) \* (R ^ 3) / 3) + ((4 \* Atn(1)) \* (R ^ 2) \* (H - (2 \* R))) - ((4 \* Atn(1)) / 3) \* ((H - d) ^ 2) \* ((3 \* R) - H + d)

ElseIf d > R Then

tank = ((2 \* 4 \* Atn(1)) \* (R ^ 3) / 3) + ((4 \* Atn(1)) \* (R ^ 2) \* (d - R))

ElseIf d <= R Then

tank = ((4 \* Atn(1)) \* (d ^ 2) / 3) \* ((3 \* R) - d)

End If

End Function

**Hand Calculations Matches, but Incorrect**

Function tank(H As Double, R As Double, d As Double) As Double

If d > (H - R) Then

tank = ((4 \* 4 \* Atn(1)) \* (R ^ 3) / 3) + ((4 \* Atn(1)) \* (R ^ 2) \* (H - (2 \* R))) - ((4 \* Atn(1)) / 3) \* ((H - d) ^ 2) \* ((3 \* R) - H + d)

ElseIf d > R Then

tank = ((2 \* 4 \* Atn(1)) \* (R ^ 3) / 3) + ((4 \* Atn(1)) \* (R ^ 2) \* (d - R))

Else

tank = ((4 \* Atn(1)) \* (d ^ 2) / 3) \* ((3 \* R) - d)

End If

End Function

**Doesn’t product the answer but only a MsgBox**

Function tank(H As Double, R As Double, d As Double) As Double

If d > (H - R) Then

tank = ((4 \* 4 \* Atn(1)) \* (R ^ 3) / 3) + ((4 \* Atn(1)) \* (R ^ 2) \* (H - (2 \* R))) - ((4 \* Atn(1)) / 3) \* ((H - d) ^ 2) \* ((3 \* R) - H + d)

MsgBox("The total volume (V) in the tank") = tank

ElseIf d > R Then

tank = ((2 \* 4 \* Atn(1)) \* (R ^ 3) / 3) + ((4 \* Atn(1)) \* (R ^ 2) \* (d - R))

MsgBox("The total volume (V) in the tank") = tank

ElseIf d <= R Then

tank = ((4 \* Atn(1)) \* (d ^ 2) / 3) \* ((3 \* R) - d)

MsgBox("The total volume (V) in the tank") = tank

End If

End Function