

Raptor - exp.no.8 sine series.rap

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Symbols

- Assignment
- Call
- Input
- Output
- Selection
- Loop

main

```

graph TD
    Start([Start]) --> GetX[/"enter x"  
GET x/]
    GetX --> YAssign[y ← x]
    YAssign --> GetN[/"enter n"  
GET n/]
    GetN --> XAssign[x ← x * (3.14 / 180)]
    XAssign --> TAssign[t ← x]
    TAssign --> SAssign[s ← x]
    SAssign --> IAssign[i ← 1]
    IAssign --> Loop([Loop])
    Loop --> Cond{i > n}
    Cond -- Yes --> PutS[/PUT s/]
    PutS --> End([End])
    Cond -- No --> TCalc[t ← (t * (-1) * x * x) / (2 * i * (2 * i + 1))]
    TCalc --> PutT[/PUT t/]
    PutT --> SAssign
    SAssign --> IAssign
    IAssign --> Loop
  
```

Variables:

- i: 5
- n: 4
- s: 0.4998
- t: 0.000000008114
- x: 0.5233
- y: 30

MasterConsole

```

sin(0.5233) = 0.4998
---Run complete. 31 symbols evaluated.---
sin(30) = 0.4998
---Run complete. 37 symbols evaluated.---
-0.02389
0.0003271
-0.000002133
0.000000008114
sin(30) = 0.4998
---Run complete. 36 symbols evaluated.---
  
```

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