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Finding intersections numerically and evaluating an integral

TI-84 Plus

```
ln(X)+1-tan(X)=0
■ X=.46654421412...
  bound=(-1E99,1...
■ left-rt=0
```

```
ln(X)+1-tan(X)=0
■ X=2.0991062099...
  bound=(-1E99,1...
■ left-rt=0
```

```
X→H
      .4665442141
X→B
      2.09910621
 $\int_A^B \left( (\ln(X)+1)^2 - \left( \tan\left(\frac{X}{2}\right) \right)^2 \right) dX$ 
```

```
X→B
      2.09910621
 $\pi \int_A^B \left( (\ln(X)+1)^2 - \left( \tan\left(\frac{X}{2}\right) \right)^2 \right) dX$ 
      3.58231076
■
```

Casio fx-9860GII

```
Ea:ln X+1-tan X/2
  X=0.4665442141
Lft=0
Rgt=0
```

REPT

```
Ea:ln X+1-tan X/2
  X=2.09910621
Lft=0
Rgt=0
```

REPT

```
X→A
      0.4665442141
X→B
      2.09910621
□
```

JUMP DEL ▶MAT MATH

```
 $\pi \int_A^B (\ln X+1)^2 - \left( \tan \frac{X}{2} \right)^2 dX$ 
      3.58231076
□
```

∫dx Σ()

□