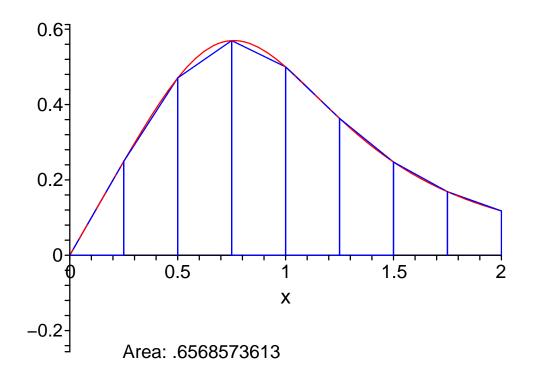
```
> restart;
> # Trapeziod and Simpson's method for numerical integration.
> with(Student[Calculus1]);
```

[AntiderivativePlot, AntiderivativeTutor, ApproximateInt, ApproximateIntTutor, ArcLength, ArcLengthTutor, Asymptotes, Clear, CriticalPoints, CurveAnalysisTutor, DerivativePlot, DerivativeTutor, DiffTutor, ExtremePoints, FunctionAverage, FunctionAverageTutor, FunctionChart, FunctionPlot, GetMessage, GetNumProblems, GetProblem, Hint, InflectionPoints, IntTutor, Integrand, InversePlot, InverseTutor, LimitTutor, MeanValueTheorem, MeanValueTheoremTutor, NewtonQuotient, NewtonsMethod, NewtonsMethodTutor, PointInterpolation, RiemannSum, RollesTheorem, Roots, Rule, Show, ShowIncomplete, ShowSteps, Summand, SurfaceOfRevolution, SurfaceOfRevolutionTutor, Tangent, TangentSecantTutor, TangentTutor, TaylorApproximation, TaylorApproximationTutor, Understand, Undo, VolumeOfRevolution, VolumeOfRevolutionTutor, WhatProblem]

> ApproximateInt( $x/(1+x^4)$ , x=0...2, method=trapezoid, partition=8, output=plot)

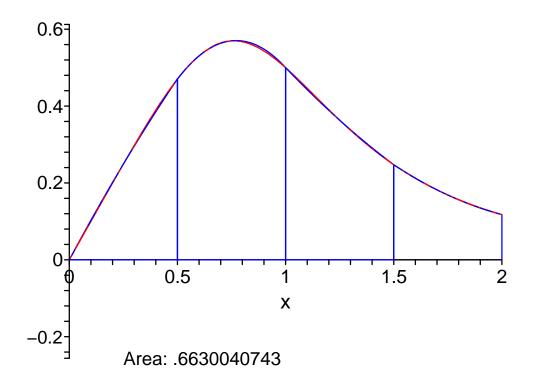
An Approximation of the Integral of  $f(x) = x/(1+x^4)$  on the Interval [0, 2] Using the Trapezoid Rule Approximate Value: .6629088318



> ApproximateInt(x/(1+x^4),x=0..2,method=simpson,partition=4,output=plot);

f(x)

An Approximation of the Integral of  $f(x) = x/(1+x^4)$  on the Interval [0, 2] Using Simpson's Rule Approximate Value: .6629088318



\_\_\_\_\_ f(x)