public override ScalarValue Integrate(MatrixValue x)

{

var y = Values;

if (x.Length != y.Length)

throw new YAMPDifferentLengthsException(x.Length, y.Length);

var sum = (x[2].Re - x[1].Re) \* y[1] + (x[N].Re - x[N - 1].Re) \* y[N];

for (var i = 2; i < N; i++)

{

sum += (x[i + 1].Re - x[i - 1].Re) \* y[i].Re;

}

return 0.5 \* sum;

}

1.5ms