
Subject: Re: Array Integration

Posted by [Maryam](#) on Sat, 14 Jul 2012 03:01:19 GMT

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Yes, it should be $W[i]$, but I don't think I got it right:

```
pro ind_intg
```

```
    delta=1.0
```

```
    W=[0.0212330,0.0424661,0.127398,0.212330,0.297263,0.424661,0
.530826,0.636991,0.743157,0.849322,0.955487,1.06165,1.16782, 1.27398]
```

```
    num_elements=n_elements(W)
```

```
    P = fltarr(num_elements)
```

```
for i = 0, num_elements-1 do begin
```

```
    P[i] = {w:w[i], delta:delta}
```

```
    my_expression = '((2.*!pi*(P.delta)^4) * x * (1+(P.delta)^2*x^2)^(-3) * exp(-(P.w)^2*x^2) )'
endfor
```

```
    A = fltarr(num_elements)
```

```
for i = 0, num_elements-1 do begin
```

```
    A[i] = qpint1d(my_expression, /expression, 0, +Inf, P)
```

```
endfor
```

```
print, A
```

```
stop
```

```
END
```
