```
>  ASY:= (L*C1*C-R*C2)/(L*C1*C+R*C2);
```
$$ASY := \frac{L\,C1\,C - R\,C2}{L\,C1\,C + R\,C2}$$

```
>  ASYERL:= (diff(ASY,L))^2;
```
$$ASYERL := (\frac{C1\,C}{L\,C1\,C + R\,C2} - \frac{(L\,C1\,C - R\,C2)\,C1\,C}{(L\,C1\,C + R\,C2)^2})^2$$

```
>  ASYERR:= (diff(ASY,R))^2;
```
$$ASYERR := (-\frac{C2}{L\,C1\,C + R\,C2} - \frac{(L\,C1\,C - R\,C2)\,C2}{(L\,C1\,C + R\,C2)^2})^2$$

```
>  ASYER:=ASYERL*L+ASYERR*R;
```
$$ASYER := (\frac{C1\,C}{L\,C1\,C + R\,C2} - \frac{(L\,C1\,C - R\,C2)\,C1\,C}{(L\,C1\,C + R\,C2)^2})^2\,L + (-\frac{C2}{L\,C1\,C + R\,C2} - \frac{(L\,C1\,C - R\,C2)\,C2}{(L\,C1\,C + R\,C2)^2})^2\,R$$

```
>  simplify(ASYER);
```
$$4\,\frac{C1^2\,C^2\,R\,C2^2\,L\,(R + L)}{(L\,C1\,C + R\,C2)^4}$$

```
>  asyer:=sqrt(");
```
$$asyer := 2\,\sqrt{\frac{C1^2\,C^2\,R\,C2^2\,L\,(R + L)}{(L\,C1\,C + R\,C2)^4}}$$

```
>  C1:=1:C2:=1:C:=1;
```
$$C := 1$$

```
>  asyer;
```
$$2\,\sqrt{\frac{R\,L}{(R + L)^3}}$$

```
>  L:=N/2:R:=N/2;
```
$$R := \frac{1}{2}\,N$$

```
>  asyer:simplify(");
```
$$\sqrt{\frac{1}{N}}$$

```
>  C1:='C1':C2:='C2':C:='C':L:='L':R:='R';
```
$$R := R$$

```
>  DS:=(L*C1*C-R*C2)/QR;
```
$$DS := \frac{L\,C1\,C - R\,C2}{QR}$$

```
>  DDS:=(diff(DS,L))^2*L+(diff(DS,R))^2*R;
```
$$DDS := \frac{C1^2\,C^2\,L}{QR^2} + \frac{C2^2\,R}{QR^2}$$

```
>  simplify(DDS);
```
$$\frac{C1^2\,C^2\,L + C2^2\,R}{QR^2}$$

```
>  dDS:=sqrt(");
```
$$dDS := \sqrt{\frac{C1^2\,C^2\,L + C2^2\,R}{QR^2}}$$

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