Out[30]//TraditionalForm=

传统格式

$$\left\{-\frac{(x-x2)^2 \ (2 \ x-3 \ x1+x2)}{(x1-x2)^3}, \ \frac{(x-x1) \ (x-x2)^2}{(x1-x2)^2}, \ \frac{(x-x1)^2 \ (2 \ x+x1-3 \ x2)}{(x1-x2)^3}, \ \frac{(x-x1)^2 \ (x-x2)}{(x1-x2)^2}\right\}$$

$$ln[31]$$
:= rule =  $\{x2 \rightarrow x1 + h, x \rightarrow x1 + t\}$ ;  
 $\phi$  /. rule // FullSimplify // TraditionalForm  
| 字个简化 | 住体放射

Out[32]//TraditionalForm=

$$\left\{\frac{(h-t)^2\,(h+2\,t)}{h^3},\,\frac{t\,(h-t)^2}{h^2},\,\frac{t^2\,(3\,h-2\,t)}{h^3},\,\frac{t^2\,(t-h)}{h^2}\right\}$$

 $_{\text{In}\text{[33]:=}}$   $\partial_x \phi$  /. rule // FullSimplify // TraditionalForm

完全简化 传统格式

Out[33]//TraditionalForm=

$$\left\{\frac{6\,t\,(t-h)}{h^3},\,\frac{(h-3\,t)\,(h-t)}{h^2},\,\frac{6\,t\,(h-t)}{h^3},\,\frac{t\,(3\,t-2\,h)}{h^2}\right\}$$

$$ln[34]:= \phi 2 = \partial_{x,x} \phi // FullSimplify;$$

φ2 /. rule // FullSimplify // TraditionalForm

**上**完全简化 **上**传统格5

Out[35]//TraditionalForm=

$$\left\{-\frac{6\left(h-2\,t\right)}{h^{3}},\,\frac{6\,t-4\,h}{h^{2}},\,\frac{6\left(h-2\,t\right)}{h^{3}},\,-\frac{2\left(h-3\,t\right)}{h^{2}}\right\}$$

## kpart /. rule // TraditionalForm

传统格式

Out[37]//TraditionalForm=

$$\begin{pmatrix} \frac{12}{h^3} & \frac{6}{h^2} & -\frac{12}{h^3} & \frac{6}{h^2} \\ \frac{6}{h^2} & \frac{4}{h} & -\frac{6}{h^2} & \frac{2}{h} \\ -\frac{12}{h^3} & -\frac{6}{h^2} & \frac{12}{h^3} & -\frac{6}{h^2} \\ \frac{6}{h^2} & \frac{2}{h} & -\frac{6}{h^2} & \frac{4}{h} \end{pmatrix}$$

$$ln[38]$$
:= **bpart** =  $\int_{x1}^{x2} \phi \, dx$  // **FullSimplify**;   
 [完全简化

## bpart /. rule // FullSimplify // TraditionalForm

Out[39]//TraditionalForm=

$$\left\{\frac{h}{2}, \frac{h^2}{12}, \frac{h}{2}, -\frac{h^2}{12}\right\}$$