

1 Three possibilities

$$\begin{array}{l}
 \boxed{5} \boxed{\times} \boxed{x} \boxed{x} \text{ and } \boxed{\text{ArcTan}} \\
 \boxed{5} \boxed{\times} \boxed{x} \boxed{x} \text{ and } \boxed{\text{ArcTan}} \\
 \boxed{\boxed{5}} \boxed{\boxed{\times}} \boxed{\boxed{x}} \boxed{\boxed{x}} \text{ and } \boxed{\boxed{\text{ArcTan}}}
 \end{array}$$

2 An automatic Splitting

$$\begin{array}{l}
 \boxed{5} \boxed{\times} \boxed{x} \boxed{x} \text{ and } \boxed{\text{A}} \boxed{\text{r}} \boxed{\text{c}} \boxed{\text{T}} \boxed{\text{a}} \boxed{\text{n}} \\
 \boxed{5} \boxed{\times} \boxed{x} \boxed{x} \text{ and } \boxed{\text{A}} \boxed{\text{r}} \boxed{\text{c}} \boxed{\text{T}} \boxed{\text{a}} \boxed{\text{n}} \\
 \boxed{\boxed{5}} \boxed{\boxed{\times}} \boxed{\boxed{x}} \boxed{\boxed{x}} \text{ and } \boxed{\boxed{\text{A}}} \boxed{\boxed{\text{r}}} \boxed{\boxed{\text{c}}} \boxed{\boxed{\text{T}}} \boxed{\boxed{\text{a}}} \boxed{\boxed{\text{n}}}
 \end{array}$$