

```
rule = u[lft____, x, y, rgt____] => u[lft, y, x, rgt] + u[lft, x, rgt]
u[lft____, x, y, rgt____] => u[lft, y, x, rgt] + u[lft, x, rgt]

u[x, x, x, x, x, y, y, y, y] //. rule // Expand
625 u[x, x, x, x, x] + 500 u[y, x, x, x, x, x] + 150 u[y, y, x, x, x, x, x] +
20 u[y, y, y, x, x, x, x, x, x] + u[y, y, y, y, x, x, x, x, x]
```