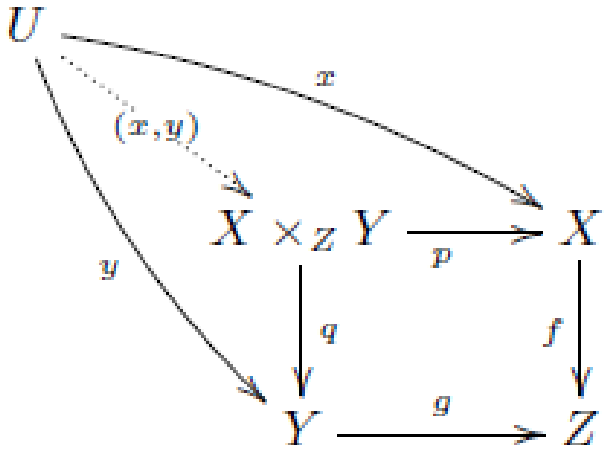
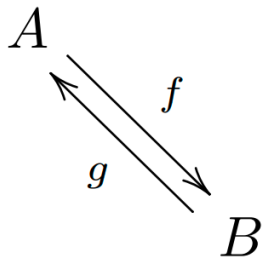
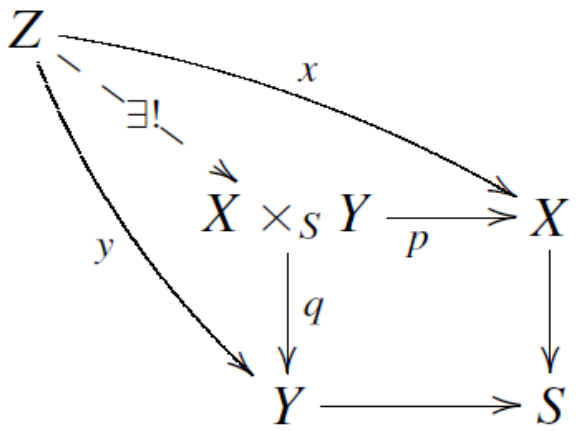


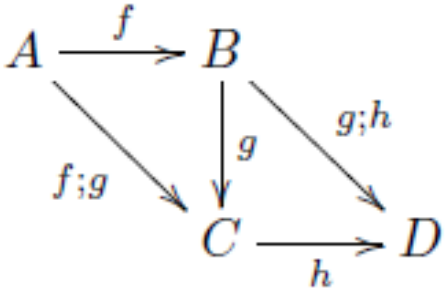

```
\xymatrix{
U \ar@/_/[ddr]_y \ar@/^/[drr]^x
\ar@{.>}[dr]|-{(x,y)}  \\
& X \times_Z Y \ar[d]^q \ar[r]_p
& X \ar[d]_f  \\
& Y \ar[r]^g & Z }
```



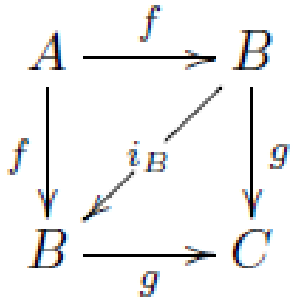

```
\xymatrix{
        A \ar@<.5ex>[dr]^f  \\
        & B \ar@<.5ex>[ul]^g  }
```



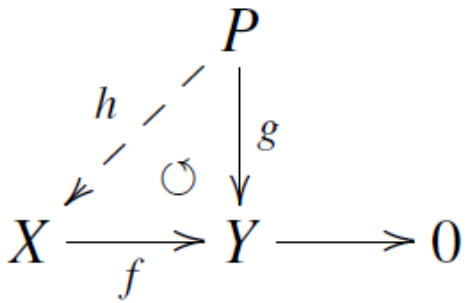

```
\xymatrix{
 Z \ar@/_/[ddr]_y \ar@/^/[drr]^x
 \ar@{-->}[dr] |(.45){\exists !}  \\
& X \times_S Y \ar[d]^q \ar[r]_p & X \ar[d]  \\
& Y \ar[r] & S }
```




```
\xymatrix{
A \ar[r]^f \ar[dr]_{f;g}
& B \ar[d]^g \ar[dr]^{g;h} \\
& C \ar[r]_h & D }
```

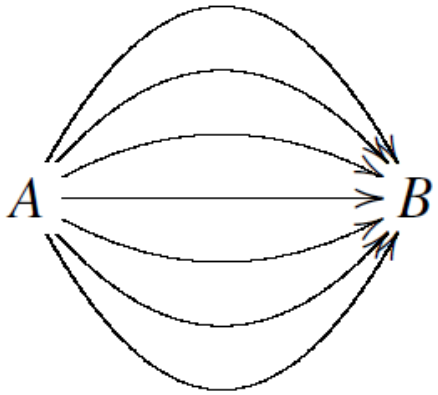



```
\xymatrix{
A \ar[d]_f \ar[r]^f
& B \ar[dl]|{i_B} \ar[d]^g \\
B \ar[r]_g & C  }
```



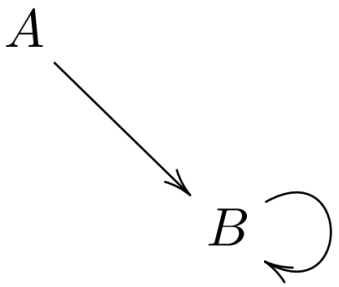

```
\xymatrix{
\ar@{}|(.7)\cal[dr] & P  \ar@{-->}[dl]_h \ar[d]^g \\
X\ar[r]_f & Y\ar[r]&0  }
```

(\cal = \circlearrowleft)

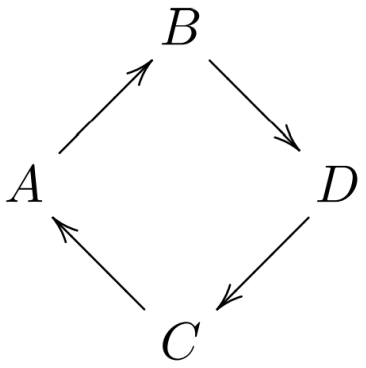


Use @/_<curve amount>/ or @/^<curve amount>/

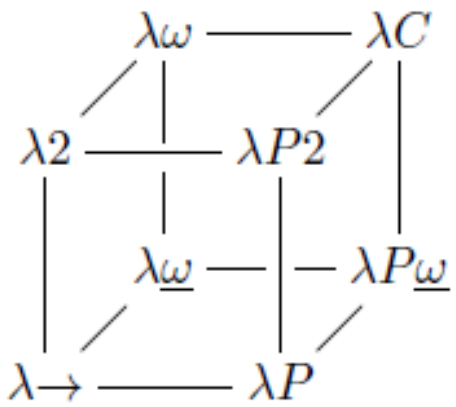
\ar@/^npc/[r] for n 2 {0, 1, 2, 3}
\ar@/_npc/[r] for n 2 {1, 2, 3}.




```
\xymatrix{ A \ar@{->}[dr] \\
 & B \ar@(ur, dr) }
```

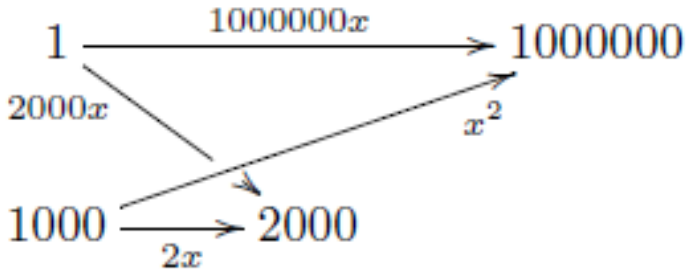



```
\xymatrix@ru{
A \ar[r] & B \ar[d] \\
C \ar[u] & D \ar[l]  }
```




```
\xymatrix@!0{
& \lambda\omega \ar@{-}[rr]\ar@{-}'[d][dd]
& & \lambda C \ar@{-}[dd]
\\
\lambda2 \ar@{-}[ur]\ar@{-}[rr]\ar@{-}[dd]
& & \lambda P2 \ar@{-}[ur]\ar@{-}[dd]
\\
& \lambda\underline\omega \ar@{-}'[r][rr]
& & \lambda P\underline\omega
\\
\lambda{\to} \ar@{-}[rr]\ar@{-}[ur]
& & \lambda P \ar@{-}[ur]    }
```


```
\xymatrix{
A \ar[r] ^a="a" & B \ar[r] ^b="b" & C
\ar @/^/ "a";"b" }
```




```
\xymatrix{
1 \ar[rr] ^-{1000000x}
\ar[dr] _(.2){2000x} |!{[d];[rr]}\hole
& & 1000000 \\
1000 \ar[r] _{2x}  \ar[urr] _>>>>{x^2}
& 2000 }
```