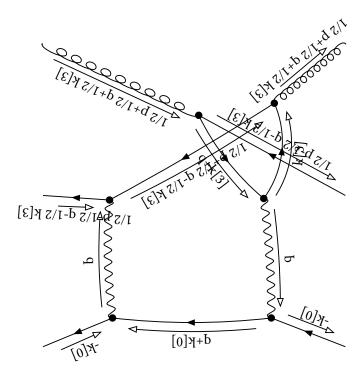
# embedding 1 [1, -1, -2, -1]

### initial

Denominator:

 $prop[0,k[3]]^{-1} \ prop[0,q+k[3]]^{-1} \ prop[0,1/2 \ p+1/2 \ q+1/2 \ k[3]]^{-1} \ prop[0,1/2 \ p+1/2 \ q-1/2 \ k[3]]^{-1} \ prop[0,1/2 \ p-1/2 \ q-1/2 \ k[3]]^{-1}$ 

- -2 (2 dot[p,q]+dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,1/2 p+1/2 q+1/2 k[3]]^-1 -2 (2 dot[p,q]+dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,1/2 p+1/2 q-1/2 k[3]]^-1 +(2 dot[p,q]+dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,1/2 p+1/2 q+1/2 k[3]]^-1 prop[0,1/2 p-1/2 q-1/2 k[3]]^-1
- $+(2 dot[p,q]+dot[q,q])^{-1} (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^{-1} prop[0,k[3]]^{-1} prop[0,1/2 p+1/2 q-1/2 k[3]]^{-1} prop[0,1/2 p-1/2 q-1/2 k[3]]^{-1}$
- $+(2 \text{ dot}[p,q]+\text{dot}[q,q])^{-1} (1/2 \text{ dot}[p,p]+\text{dot}[p,q]+1/2 \text{ dot}[q,q])^{-1} \text{ prop}[0,q+k[3]]^{-1} \text{ prop}[0,1/2 p+1/2 q+1/2 k[3]]^{-1} \text{ prop}[0,1/2 p+1/2 q-1/2 k[3]]^{-1}$
- $-1/2 \ (2 \ dot[p,q]+dot[q,q])^{-1} \ (1/2 \ dot[p,p]+dot[p,q]+1/2 \ dot[q,q])^{-1} \ prop[0,1/2 \ p+1/2 \ q+1/2 \ k[3]]^{-1} \ prop[0,1/2 \ p-1/2 \ k[3]]^{-1} \\ prop[0,1/2 \ p-1/2 \ k[3]]^{-1}$
- +4 (2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,1/2 p+1/2 q+1/2 k[3]]^-1 dot[p,p]^-1
- +4 (2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,1/2 p-1/2 q-1/2 k[3]]^-1 dot[p,p]^-1
- -2 (2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,1/2 p+1/2 q+1/2 k[3]]^-1 prop[0,1/2 p-1/2 q-1/2 k[3]]^-1 dot[p,p]^-1
- $-2 \ (2 \ dot[p,q]+dot[q,q])^{-1} \ prop[0,q+k[3]]^{-1} \ prop[0,1/2 \ p+1/2 \ q+1/2 \ k[3]]^{-1} \ prop[0,1/2 \ p+1/2 \ q-1/2 \ k[3]]^{-1} \ dot[p,p]^{-1}$
- $-2 \ (2 \ \mathsf{dot[p,q]+dot[q,q]})^{-1} \ \mathsf{prop[0,q+k[3]]^{-1}} \ \mathsf{prop[0,1/2} \ \mathsf{p+1/2} \ \mathsf{q-1/2} \ \mathsf{k[3]]^{-1}} \ \mathsf{prop[0,1/2} \ \mathsf{p-1/2} \ \mathsf{q-1/2} \ \mathsf{k[3]]^{-1}} \ \mathsf{dot[p,p]^{-1/2}} \ \mathsf{prop[0,1/2} \ \mathsf{p-1/2} \ \mathsf{q-1/2} \ \mathsf{k[3]]^{-1}} \ \mathsf{dot[p,p]^{-1/2}} \ \mathsf{prop[0,q+k[3]]^{-1}} \ \mathsf$
- $+(2 dot[p,q]+dot[q,q])^{-1} prop[0,1/2 p+1/2 q+1/2 k[3]]^{-1} prop[0,1/2 p+1/2 q-1/2 k[3]]^{-1} prop[0,1/2 p-1/2 q-1/2 k[3]]^{-1} dot[p,p]^{-1}$



-1+8+16

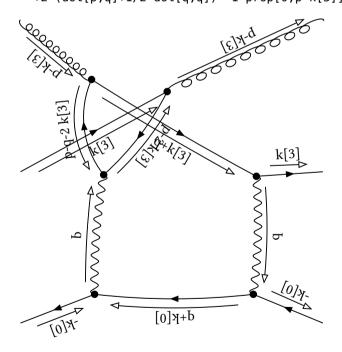
# embedding 2 [1, -1, -1, -2]

### initial

### Denominator:

prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p-2 k[3]]^-1 prop[0,p-q-2 k[3]]^-1

```
-1/4 (dot[p,q]+1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 +1/2 (dot[p,q]+1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p-q-2 k[3]]^-1 +1/2 (dot[p,q]+1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p-k[3]]^-1 dot[p,p]^-1 (dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p-k[3]]^-1 dot[p,p]^-1 (dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p-2 k[3]]^-1 dot[p,p]^-1 (dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p-2 k[3]]^-1 dot[p,p]^-1 (dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p-2 k[3]]^-1 prop[0,p-2 k[3]]^-1 dot[p,p]^-1 (dot[p,q]+1/2 dot[q,q])^-1 prop[0,p-k[3]]^-1 prop[0,p-2 k[3]]^-1 prop[0,p-2 k[3]]^-1 dot[p,p]^-1 (dot[p,q]+1/2 dot[q,q])^-1 prop[0,p-k[3]]^-1 prop[0,p-2 k[3]]^-1 prop[0,p-2 k[3]]^-1 dot[p,p]^-1 (dot[p,q]+1/2 dot[q,q])^-1 prop[0,p-k[3]]^-1 prop[0,p-2 k[3]]^-1 prop[0,p-2 k[3]]^-1 dot[p,p]^-1
```



-3+13+16

-1+15+16

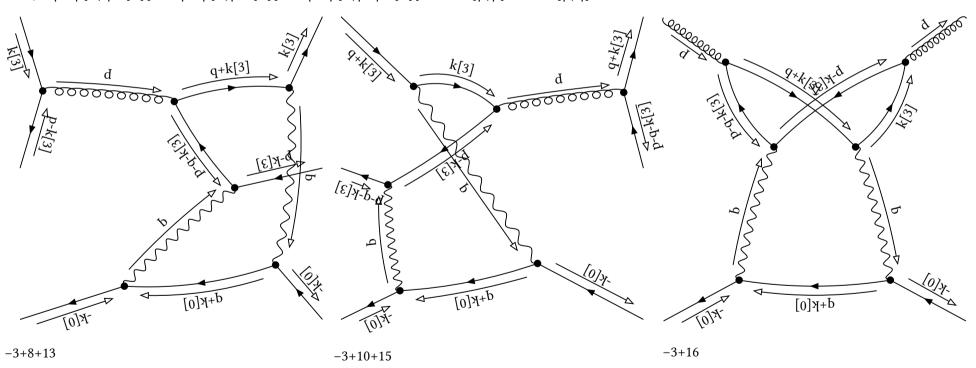
# embedding 3 [1, -1, -1, -1]

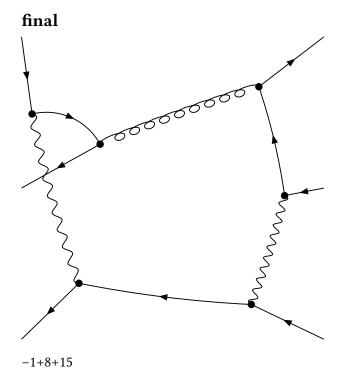
### initial

Denominator:

prop[0,p]^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p-q-k[3]]^-1

```
-1/2 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 dot[p,p]^-1 dot[p,q]^-1 
+1/2 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p-q-k[3]]^-1 dot[p,p]^-1 dot[p,q]^-1 
+1/2 prop[0,k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p-q-k[3]]^-1 dot[p,p]^-1 dot[p,q]^-1 
-1/2 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p-q-k[3]]^-1 dot[p,p]^-1 dot[p,q]^-1
```





# embedding 4 [1, 0, -1, -1]

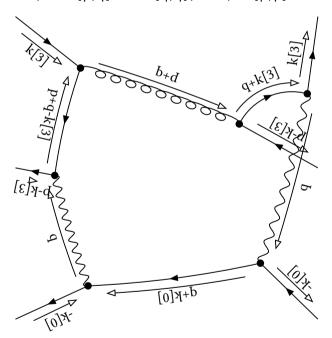
### initial

Denominator:

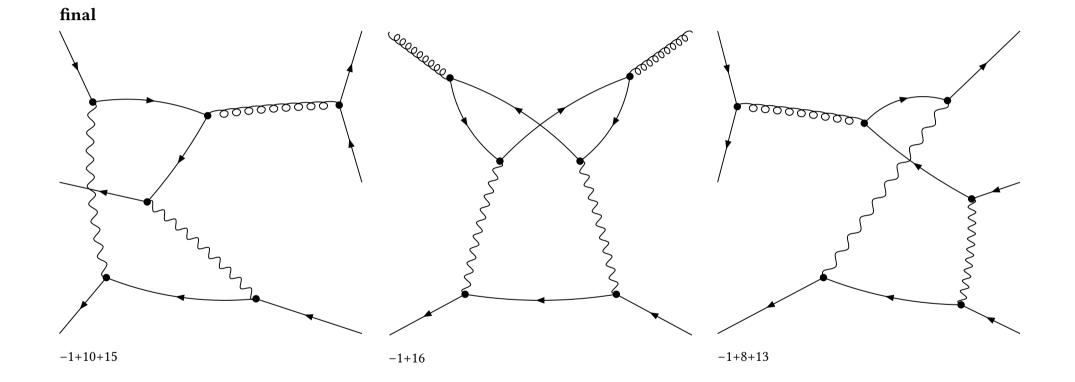
prop[0,k[3]]^-1 prop[0,p+q]^-1 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p+q-k[3]]^-1

Partial Fractioned Denominator:

(2 dot[p,q]+2 dot[q,q])^-1 (dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 -(2 dot[p,q]+2 dot[q,q])^-1 (dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q-k[3]]^-1 +(2 dot[p,q]+2 dot[q,q])^-1 (dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p+q-k[3]]^-1 -(2 dot[p,q]+2 dot[q,q])^-1 (dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1



-3+10+13



# embedding 5 [1, 0, -1, 0]

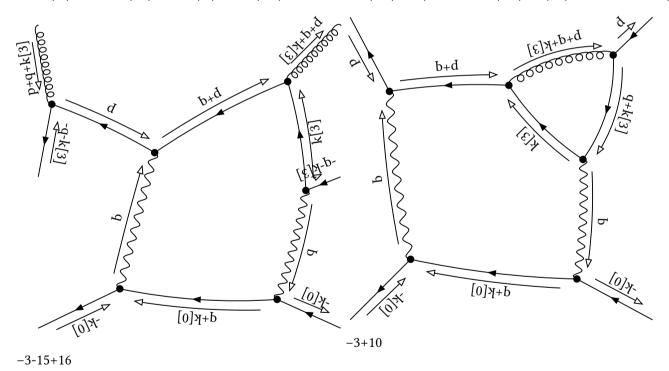
### initial

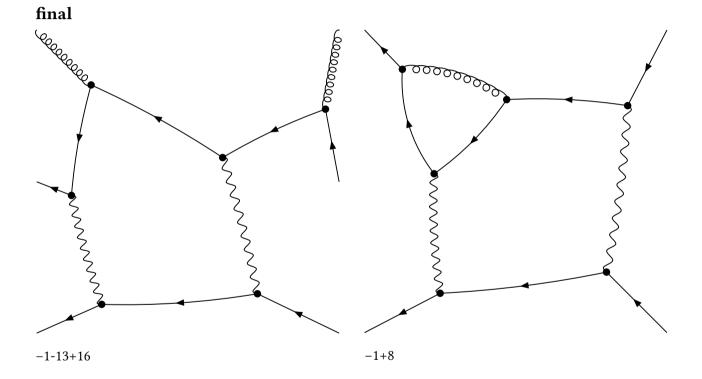
Denominator:

prop[0,p]^-1 prop[0,k[3]]^-1 prop[0,p+q]^-1 prop[0,q+k[3]]^-1 prop[0,p+q+k[3]]^-1

Partial Fractioned Denominator:

 $(\mathsf{dot}[\mathsf{p},\mathsf{p}] + 2 \ \mathsf{dot}[\mathsf{p},\mathsf{q}] + \mathsf{dot}[\mathsf{q},\mathsf{q}])^{-1} \ \mathsf{prop}[\mathsf{0},\mathsf{k}[\mathsf{3}]]^{-1} \ \mathsf{prop}[\mathsf{0},\mathsf{q}+\mathsf{k}[\mathsf{3}]]^{-1} \ \mathsf{prop}[\mathsf{0},\mathsf{p}+\mathsf{q}+\mathsf{k}[\mathsf{3}]]^{-1} \ \mathsf{dot}[\mathsf{p},\mathsf{p}]^{-1}$ 





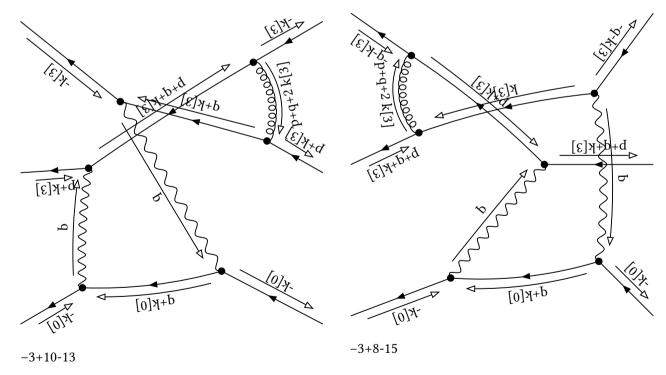
# embedding 6 [1, 0, -1, 1]

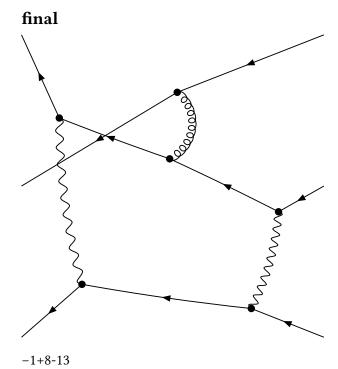
### initial

### Denominator:

prop[0,k[3]]^-1 prop[0,p+k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+q+2 k[3]]^-1

```
-1/2 (-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p+k[3]]^-1 prop[0,p+q+k[3]]^-1 dot[p,q]^-1 +(-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p+k[3]]^-1 prop[0,p+q+2 k[3]]^-1 dot[p,q]^-1 -1/2 (-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q+k[3]]^-1 dot[p,q]^-1 +(-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,p+k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q+2 k[3]]^-1 dot[p,q]^-1 +(-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,p+k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+q+2 k[3]]^-1 dot[p,q]^-1 +1/2 (-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p+k[3]]^-1 prop[0,q+k[3]]^-1 dot[p,q]^-1 -(-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p+k[3]]^-1 prop[0,p+q+2 k[3]]^-1 dot[p,q]^-1 -(-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q+2 k[3]]^-1 dot[p,q]^-1 +1/2 (-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,p+k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q+2 k[3]]^-1 dot[p,q]^-1 -(-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,p+k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+q+k[3]]^-1 dot[p,q]^-1 -(-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,p+k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+q+2 k[3]]^-1 dot[p,q]^-1 -(-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,p+k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+q+2 k[3]]^-1 dot[p,q]^-1 -(-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,p+k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+q+2 k[3]]^-1 dot[p,q]^-1
```





# embedding 7 [1, 0, 0, -1]

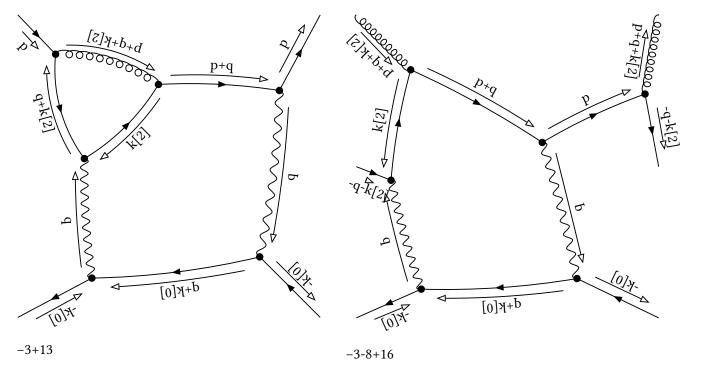
## initial

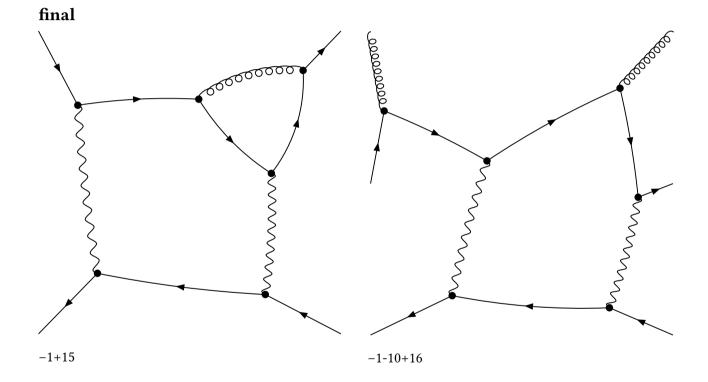
Denominator:

prop[0,p]^-1 prop[0,k[2]]^-1 prop[0,p+q]^-1 prop[0,q+k[2]]^-1 prop[0,p+q+k[2]]^-1

Partial Fractioned Denominator:

 $(\mathsf{dot}[\mathsf{p},\mathsf{p}] + 2 \ \mathsf{dot}[\mathsf{p},\mathsf{q}] + \mathsf{dot}[\mathsf{q},\mathsf{q}])^{-1} \ \mathsf{prop}[\mathsf{0},\mathsf{k}[2]]^{-1} \ \mathsf{prop}[\mathsf{0},\mathsf{q}+\mathsf{k}[2]]^{-1} \ \mathsf{prop}[\mathsf{0},\mathsf{p}+\mathsf{q}+\mathsf{k}[2]]^{-1} \ \mathsf{dot}[\mathsf{p},\mathsf{p}]^{-1}$ 





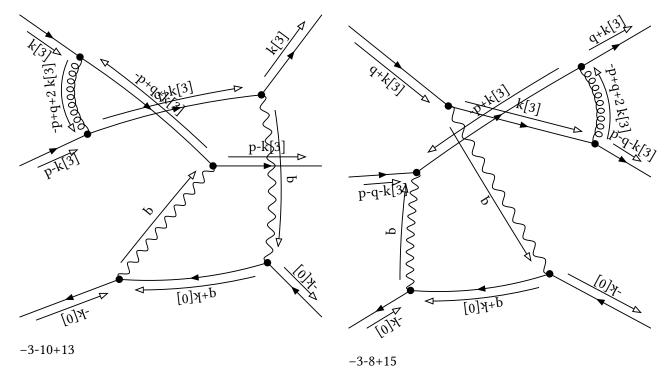
# embedding 8 [1, 0, 1, -1]

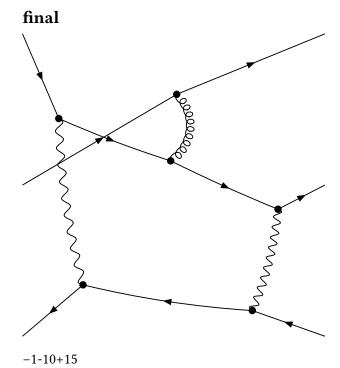
### initial

### Denominator:

prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p+k[3]]^-1 prop[0,-p+q+k[3]]^-1 prop[0,-p+q+2 k[3]]^-1

```
-1/2 (-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p+k[3]]^-1 dot[p,q]^-1 + (-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p+q+2 k[3]]^-1 dot[p,q]^-1 + (-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-p+k[3]]^-1 prop[0,-p+q+2 k[3]]^-1 dot[p,q]^-1 -1/2 (-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-p+q+k[3]]^-1 prop[0,-p+q+k[3]]^-1 dot[p,q]^-1 + (-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,-p+k[3]]^-1 prop[0,-p+q+k[3]]^-1 prop[0,-p+q+2 k[3]]^-1 dot[p,q]^-1 + (-dot[p,p]-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p+q+k[3]]^-1 dot[p,q]^-1 - (-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p+q+2 k[3]]^-1 dot[p,q]^-1 + 1/2 (-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-p+k[3]]^-1 prop[0,-p+q+k[3]]^-1 dot[p,q]^-1 - (-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-p+k[3]]^-1 prop[0,-p+q+2 k[3]]^-1 dot[p,q]^-1 - (-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-p+q+k[3]]^-1 prop[0,-p+q+2 k[3]]^-1 dot[p,q]^-1 - (-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-p+q+k[3]]^-1 prop[0,-p+q+2 k[3]]^-1 dot[p,q]^-1 - (-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,-p+k[3]]^-1 prop[0,-p+q+k[3]]^-1 prop[0,-p+q+2 k[3]]^-1 dot[p,q]^-1 - (-dot[p,p]+2 dot[p,q]-dot[q,q])^-1 prop[0,-p+k[3]]^-1 prop[0,-p+q+k[3]]^-1 prop[0,-p+q+2 k[3]]^-1 dot[p,q]^-1
```





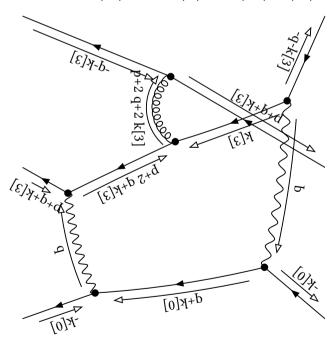
# embedding 9 [1, 1, -1, 1]

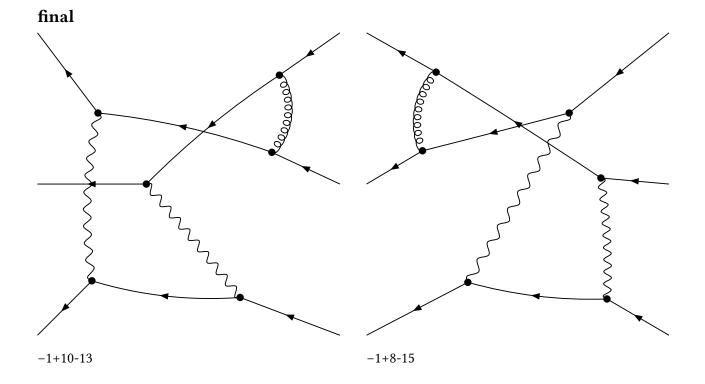
### initial

Denominator:

prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+2 q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1

```
(-2 dot[p,q]-2 dot[q,q])^-1 (-dot[p,p]-4 dot[p,q]-4 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+2 q+k[3]]^-1
-2 (-2 dot[p,q]-2 dot[q,q])^-1 (-dot[p,p]-4 dot[p,q]-4 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1
+(-2 dot[p,q]-2 dot[q,q])^-1 (-dot[p,p]-4 dot[p,q]-4 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+2 q+k k[3]]^-1
-2 (-2 dot[p,q]-2 dot[q,q])^-1 (-dot[p,p]-4 dot[p,q]-4 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1
-2 (-2 dot[p,q]-2 dot[q,q])^-1 (-dot[p,p]-4 dot[p,q]-4 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,p+2 q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1
-2 (-2 dot[p,q]-2 dot[q,q])^-1 (-dot[p,p]-4 dot[p,q]-4 dot[q,q])^-1 prop[0,p+q+k[3]]^-1 prop[0,p+2 q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1
+(-2 dot[p,q]-2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q+k[3]]^-1 dot[p,p]^-1
-2 (-2 dot[p,q]-2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1 dot[p,p]^-1
+(-2 dot[p,q]-2 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,p+q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1 dot[p,p]^-1
+(-2 dot[p,q]-2 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,p+2 q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1 dot[p,p]^-1
-2 (-2 dot[p,q]-2 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,p+2 q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1 dot[p,p]^-1
-2 (-2 dot[p,q]-2 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,p+2 q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1 dot[p,p]^-1
-2 (-2 dot[p,q]-2 dot[q,q])^-1 prop[0,p+q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1 dot[p,p]^-1
-2 (-2 dot[p,q]-2 dot[q,q])^-1 prop[0,p+q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1 dot[p,p]^-1
```





# embedding 10 [1, 1, 0, 1]

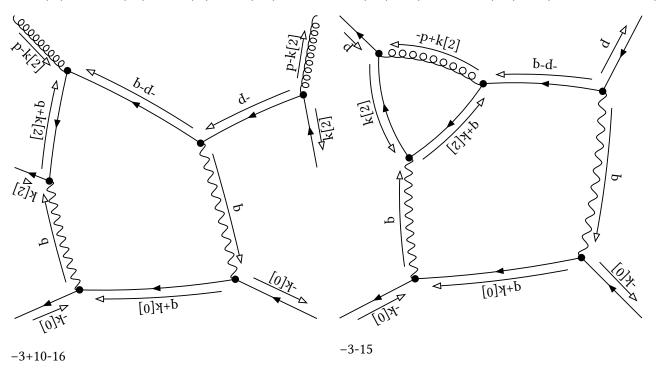
## initial

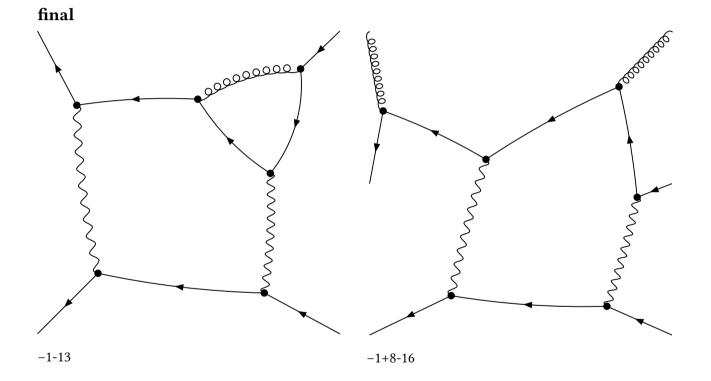
Denominator:

prop[0,k[2]]^-1 prop[0,-p]^-1 prop[0,q+k[2]]^-1 prop[0,-p+k[2]]^-1 prop[0,-p-q]^-1

Partial Fractioned Denominator:

 $(\mathsf{dot}[\mathsf{p},\mathsf{p}] + 2 \ \mathsf{dot}[\mathsf{p},\mathsf{q}] + \mathsf{dot}[\mathsf{q},\mathsf{q}])^{-1} \ \mathsf{prop}[\mathsf{0},\mathsf{k}[\mathsf{2}]]^{-1} \ \mathsf{prop}[\mathsf{0},\mathsf{q}+\mathsf{k}[\mathsf{2}]]^{-1} \ \mathsf{prop}[\mathsf{0},-\mathsf{p}+\mathsf{k}[\mathsf{2}]]^{-1} \ \mathsf{dot}[\mathsf{p},\mathsf{p}]^{-1}$ 



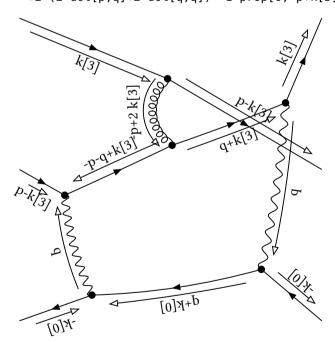


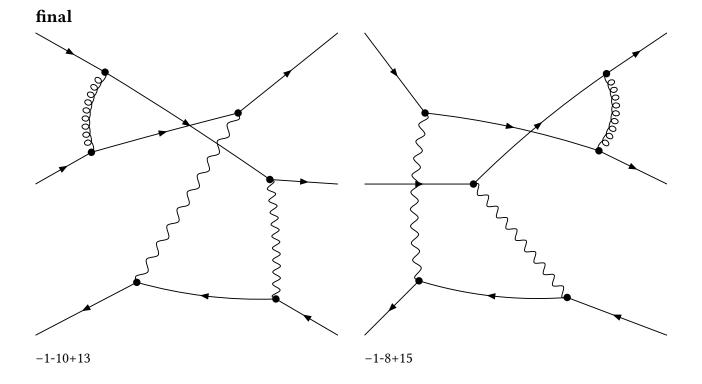
# embedding 11 [1, 1, 1, -1]

### initial

### Denominator:

 $prop[0,k[3]]^{-1} \ prop[0,q+k[3]]^{-1} \ prop[0,-p+k[3]]^{-1} \ prop[0,-p+2 \ k[3]]^{-1} \ prop[0,-p-q+k[3]]^{-1}$ 





# embedding 12 [1, 1, 1, 0]

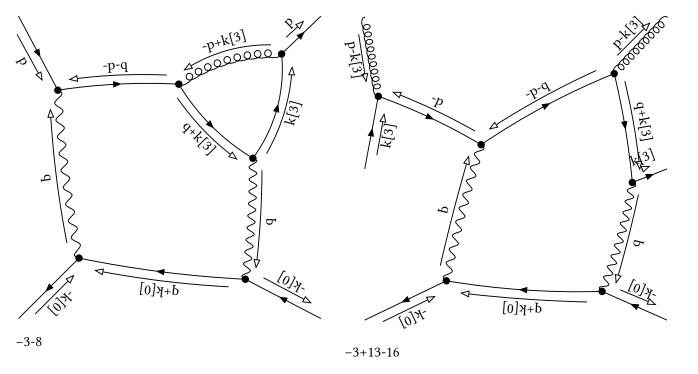
## initial

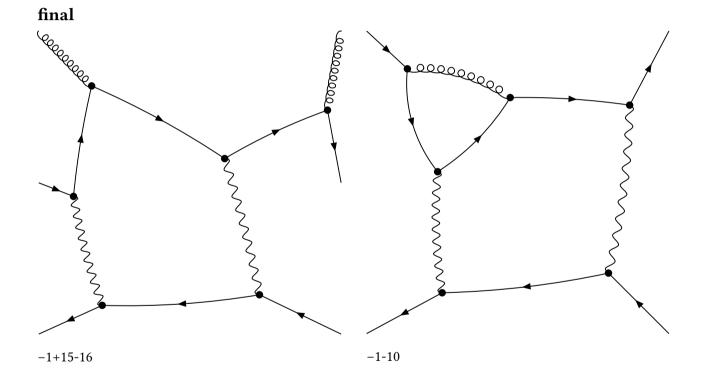
Denominator:

prop[0,k[3]]^-1 prop[0,-p]^-1 prop[0,q+k[3]]^-1 prop[0,-p+k[3]]^-1 prop[0,-p-q]^-1

Partial Fractioned Denominator:

 $(dot[p,p]+2 \ dot[p,q]+dot[q,q])^{-1} \ prop[0,k[3]]^{-1} \ prop[0,q+k[3]]^{-1} \ prop[0,-p+k[3]]^{-1} \ dot[p,p]^{-1}$ 





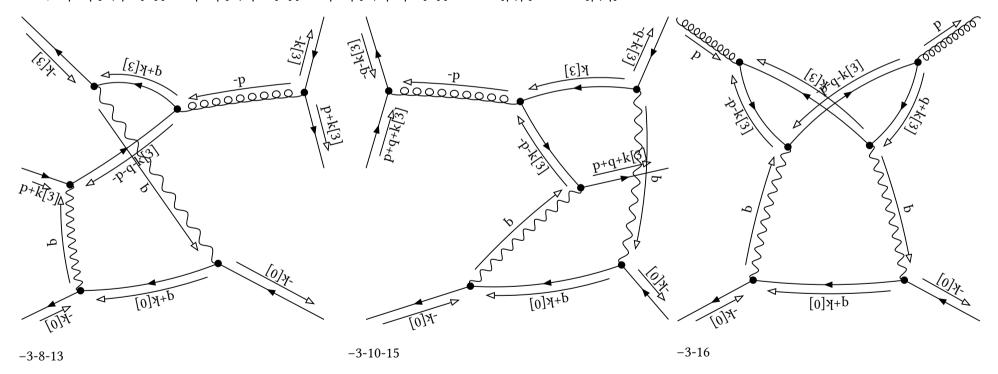
# embedding 13 [1, 1, 1, 1]

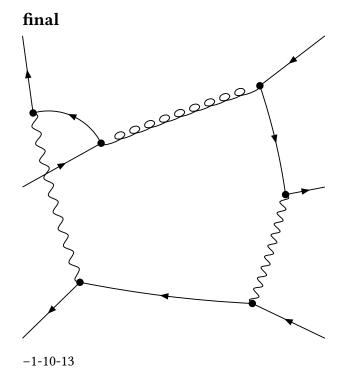
### initial

Denominator:

prop[0,k[3]]^-1 prop[0,-p]^-1 prop[0,q+k[3]]^-1 prop[0,-p-k[3]]^-1 prop[0,-p-q-k[3]]^-1

```
1/2 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-k[3]]^-1 dot[p,p]^-1 dot[p,q]^-1
-1/2 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-k[3]]^-1 dot[p,p]^-1 dot[p,q]^-1
-1/2 prop[0,k[3]]^-1 prop[0,-p-k[3]]^-1 prop[0,-p-q-k[3]]^-1 dot[p,p]^-1 dot[p,q]^-1
+1/2 prop[0,q+k[3]]^-1 prop[0,-p-k[3]]^-1 prop[0,-p-q-k[3]]^-1 dot[p,p]^-1
```





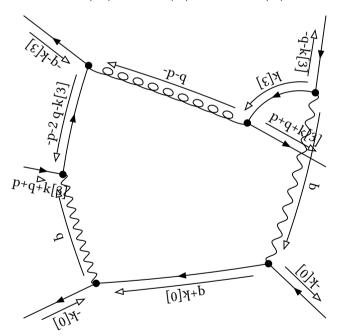
# embedding 14 [1, 2, 1, 1]

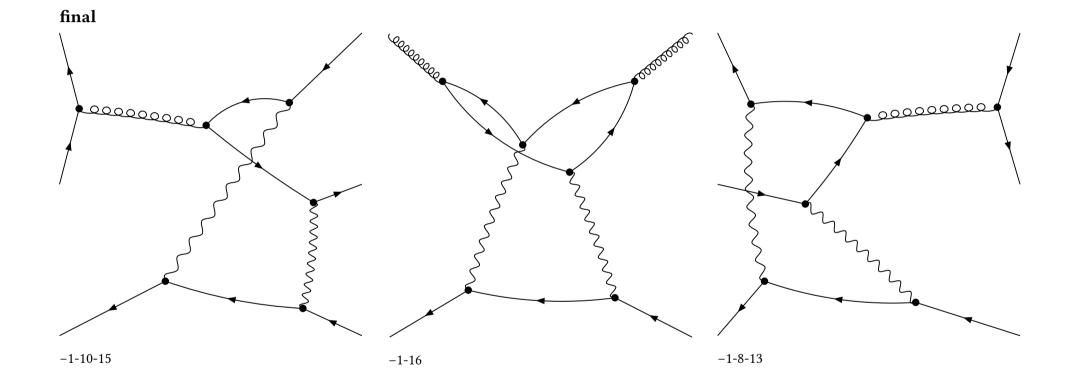
### initial

Denominator:

prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-q]^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-2 q-k[3]]^-1

```
-(-2 dot[p,q]-2 dot[q,q])^-1 (dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-k[3]]^-1 +(-2 dot[p,q]-2 dot[q,q])^-1 (dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-2 q-k[3]]^-1 +(-2 dot[p,q]-2 dot[q,q])^-1 (dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-2 q-k[3]]^-1 -(-2 dot[p,q]-2 dot[q,q])^-1 (dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-2 q-k[3]]^-1
```





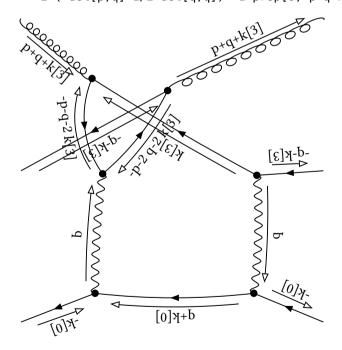
# embedding 15 [1, 2, 1, 2]

### initial

### Denominator:

prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-q-2 k[3]]^-1 prop[0,-p-2 q-2 k[3]]^-1

```
1/4 (-dot[p,q]-1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-k[3]]^-1
-1/2 (-dot[p,q]-1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-2 k[3]]^-1
-1/2 (-dot[p,q]-1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-2 q-2 k[3]]^-1
+(-dot[p,q]-1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-p-q-2 k[3]]^-1 prop[0,-p-2 q-2 k[3]]^-1
-1/2 (-dot[p,q]-1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-q-2 k[3]]^-1
+(-dot[p,q]-1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-q-2 k[3]]^-1
-1/2 (-dot[p,q]-1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-k[3]]^-1 dot[p,p]^-1
+(-dot[p,q]-1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-2 q-2 k[3]]^-1 dot[p,p]^-1
+(-dot[p,q]-1/2 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-2 q-2 k[3]]^-1 dot[p,p]^-1
+(-dot[p,q]-1/2 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-2 q-2 k[3]]^-1 dot[p,p]^-1
-2 (-dot[p,q]-1/2 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-2 k[3]]^-1 prop[0,-p-2 q-2 k[3]]^-1 dot[p,p]^-1
-2 (-dot[p,q]-1/2 dot[q,q])^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-2 k[3]]^-1 prop[0,-p-2 q-2 k[3]]^-1 dot[p,p]^-1
```



-1-13-16

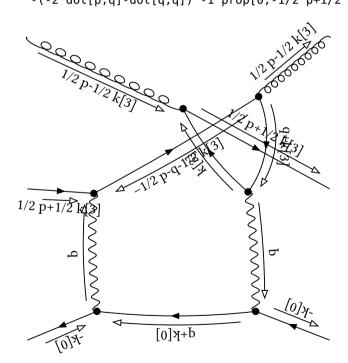
# embedding 16 [1, 2, 2, 1]

### initial

Denominator:

prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-1/2 p+1/2 k[3]]^-1 prop[0,-1/2 p-1/2 k[3]]^-1 prop[0,-1/2 p-q-1/2 k[3]]^-1

```
2 (-2 dot[p,q]-dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-1/2 p+1/2 k[3]]^-1
+2 (-2 dot[p,q]-dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-1/2 p-q-1/2 k[3]]^-1
-(-2 dot[p,q]-dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-1/2 p+1/2 k[3]]^-1 prop[0,-1/2 p-q-1/2 k[3]]^-1
-(-2 dot[p,q]-dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-1/2 p+1/2 k[3]]^-1 prop[0,-1/2 p-1/2 k[3]]^-1
-(-2 dot[p,q]-dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-1/2 p-1/2 k[3]]^-1 prop[0,-1/2 p-1/2 k[3]]^-1
+1/2 (-2 dot[p,q]-dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,-1/2 p+1/2 k[3]]^-1 prop[0,-1/2 p-1/2 k[3]]^-1
-4 (-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-1/2 p+1/2 k[3]]^-1 dot[p,p]^-1
-4 (-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-1/2 p-1/2 k[3]]^-1 dot[p,p]^-1
+2 (-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-1/2 p+1/2 k[3]]^-1 prop[0,-1/2 p-q-1/2 k[3]]^-1 dot[p,p]^-1
+2 (-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-1/2 p+1/2 k[3]]^-1 prop[0,-1/2 p-q-1/2 k[3]]^-1 dot[p,p]^-1
+2 (-2 dot[p,q]-dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-1/2 p+1/2 k[3]]^-1 prop[0,-1/2 p-q-1/2 k[3]]^-1 dot[p,p]^-1
-(-2 dot[p,q]-dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-1/2 p-1/2 k[3]]^-1 prop[0,-1/2 p-q-1/2 k[3]]^-1 dot[p,p]^-1
-(-2 dot[p,q]-dot[q,q])^-1 prop[0,q+k[3]]^-1 prop[0,-1/2 p-1/2 k[3]]^-1 prop[0,-1/2 p-q-1/2 k[3]]^-1 dot[p,p]^-1
-(-2 dot[p,q]-dot[q,q])^-1 prop[0,-1/2 p+1/2 k[3]]^-1 prop[0,-1/2 p-q-1/2 k[3]]^-1 dot[p,p]^-1
```



-1-10-16