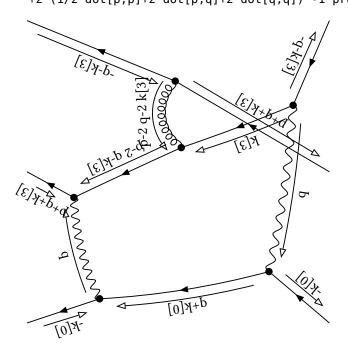
embedding 1 [-1, -2, -1, -2]

initial

Denominator:

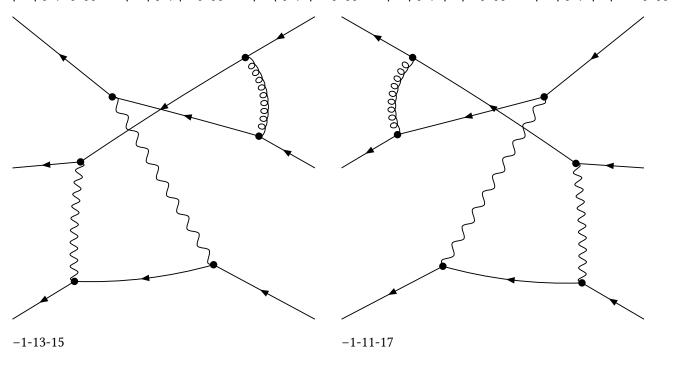
prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p-q-k[3]]^-1 prop[0,-p-2 q-k[3]]^-1 prop[0,-p-2 q-2 k[3]]^-1

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



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



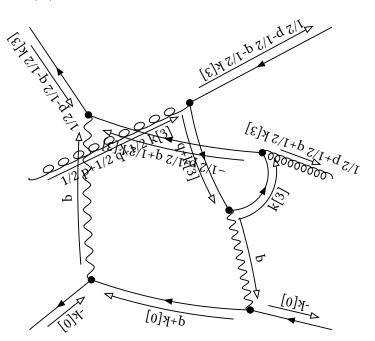
embedding 2 [-1, -1, -2, -1]

initial

Denominator:

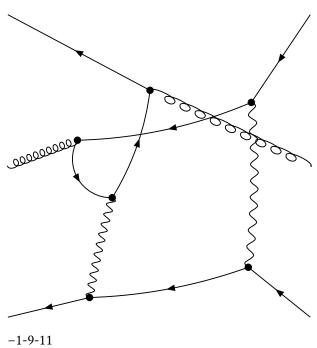
 $prop[0,k[3]]^{-1}$ $prop[0,q+k[3]]^{-1}$ prop[0,-1/2 p+1/2 q+1/2 $k[3]]^{-1}$ prop[0,-1/2 q+1/2 $k[3]]^{-1}$ prop[0,-1/2 q+1/2 $k[3]]^{-1}$

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



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



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

Partial Fractioned Denominator:

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

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

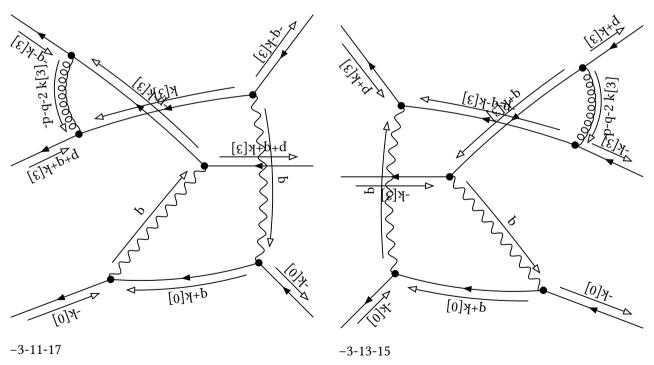
 $+(1/2 \text{ dot}[p,p]-\text{dot}[p,q]+1/2 \text{ dot}[q,q])^-1 (1/2 \text{ dot}[p,p]+\text{dot}[p,q]+1/2 \text{ dot}[q,q])^-1 \text{ prop}[0,-p-k[3]]^-1 \text{ prop}[0,-p-q-k[3]]^-1 \text{ prop}[0,-p-q-k[3]]^-1$

-1/4 (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 dot[p,q]^-1

+1/4 (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 dot[p,q]^-1

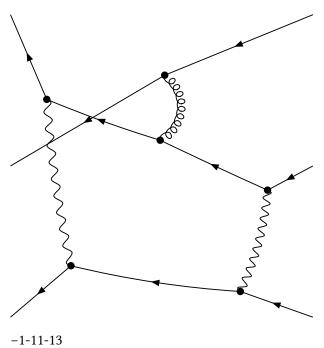
+1/4 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,-p-k[3]]^-1 prop[0,-p-q-k[3]]^-1 dot[p,q]^-1

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



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 4 [-1, -1, -1, -1]

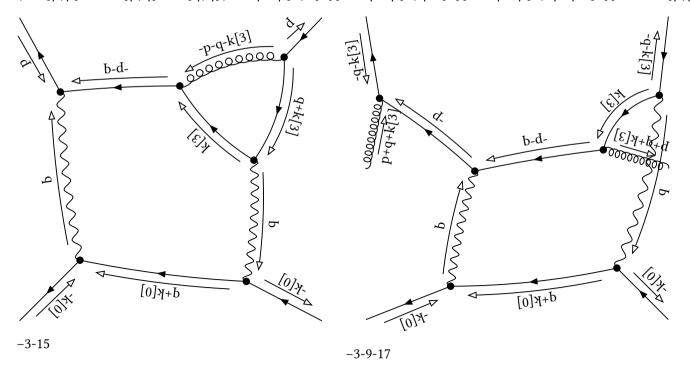
initial

Denominator:

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

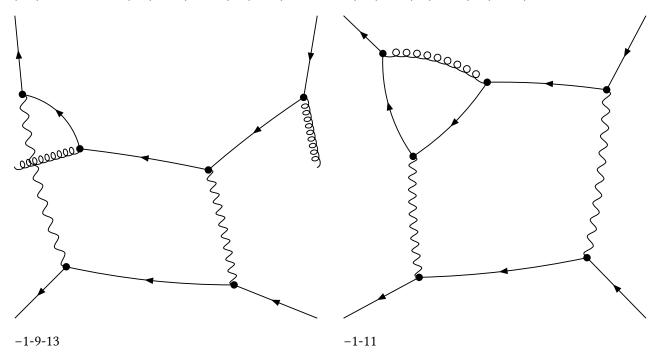
Partial Fractioned Denominator:

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



Denominator:

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



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

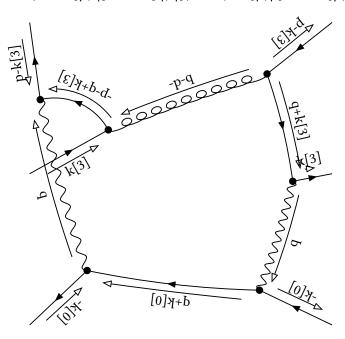
initial

Denominator:

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

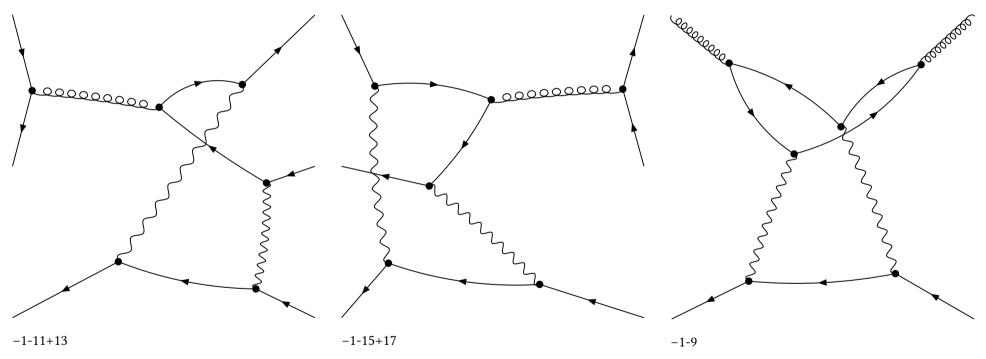


-3+13-15

final

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



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

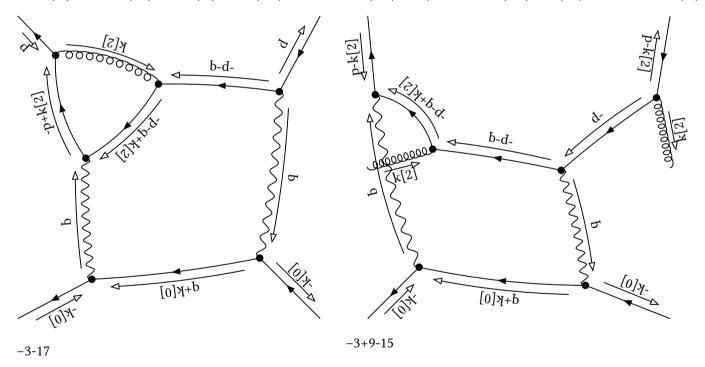
initial

Denominator:

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

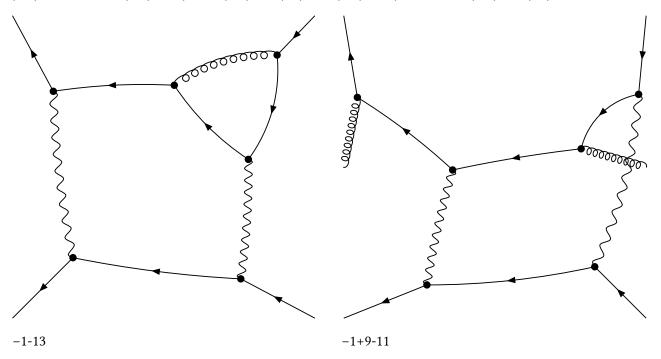
Partial Fractioned Denominator:

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



Denominator:

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



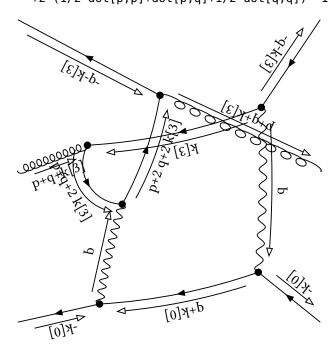
embedding 7 [-1, -1, 1, -1]

initial

Denominator:

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

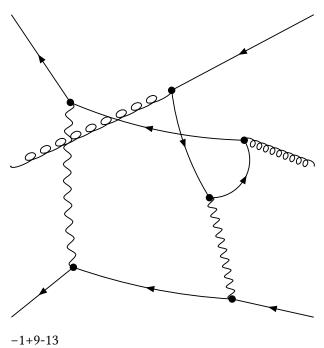
```
-1/2 (-dot[p,q]-1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q+2 k[3]]^-1 +1/2 (-dot[p,q]-1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+2 q+2 k[3]]^-1 +(-dot[p,q]-1/2 dot[q,q])^-1 (1/2 dot[p,p]+dot[p,q]+1/2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



-3+9-17

Denominator:

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



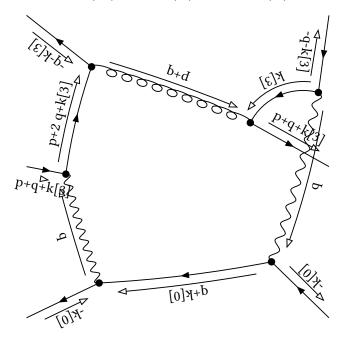
embedding 8 [-1, -1, 1, 0]

initial

Denominator:

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

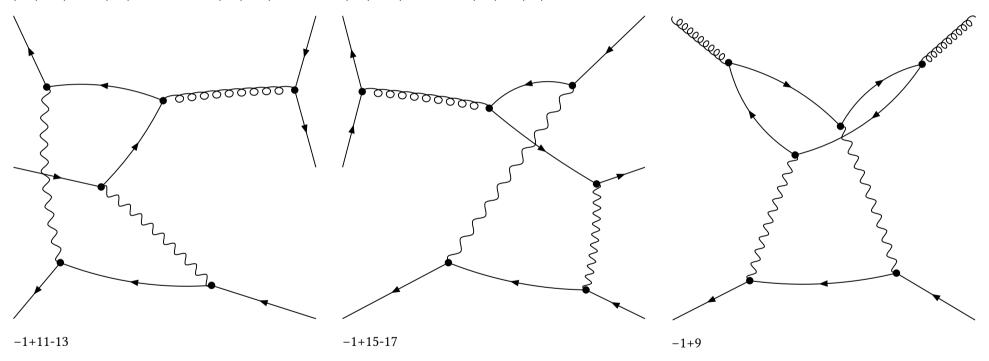


-3+11-17

final

Denominator:

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



embedding 9 [-1, 0, -1, 0]

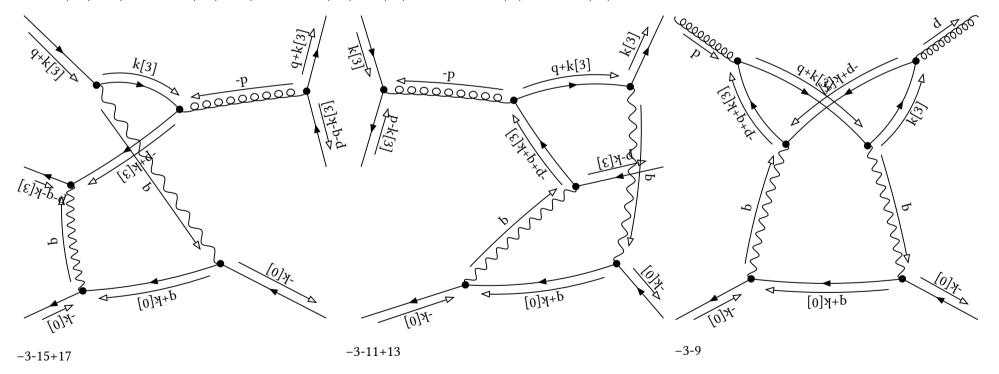
initial

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+k[3]]^-1

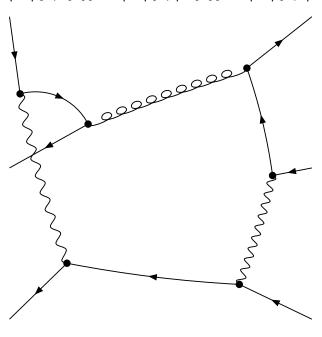
Partial Fractioned Denominator:

-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



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



-1-11+17

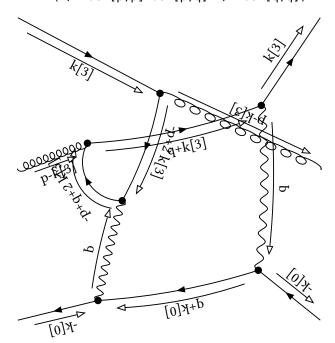
embedding 10 [-1, 0, -1, 1]

initial

Denominator:

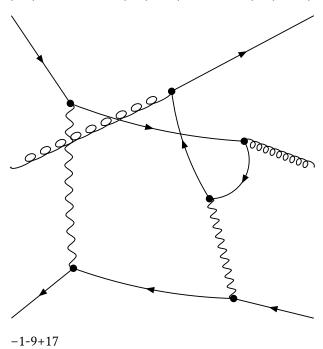
prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,-p+k[3]]^-1 prop[0,-p+2 k[3]]^-1 prop[0,-p+q+2 k[3]]^-1

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



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



embedding 11 [-1, 0, 0, 1]

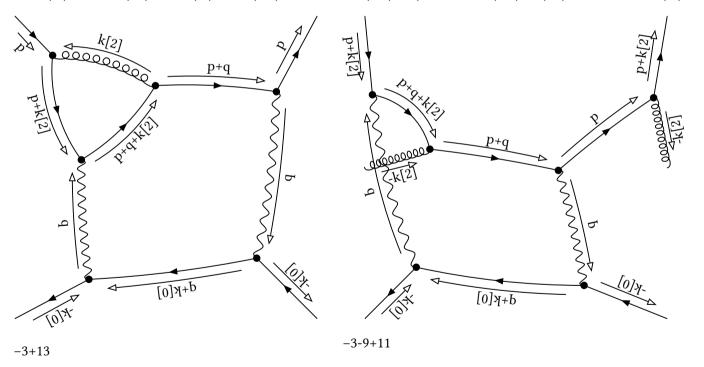
initial

Denominator:

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

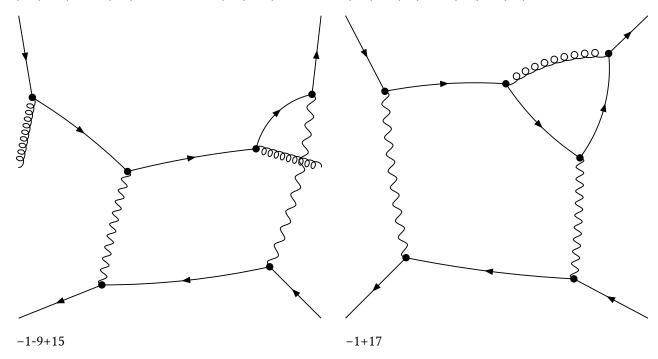
Partial Fractioned Denominator:

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



Denominator:

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



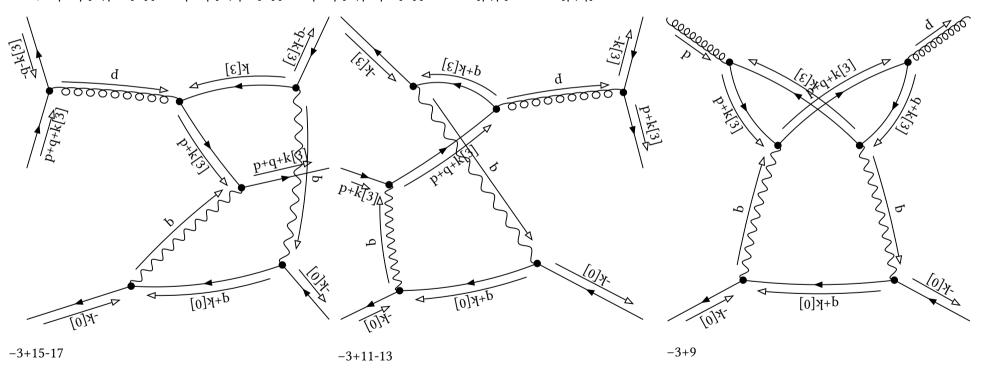
embedding 12 [-1, 0, 1, 0]

initial

Denominator:

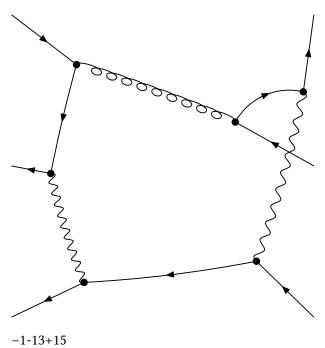
prop[0,p]^-1 prop[0,k[3]]^-1 prop[0,p+k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q+k[3]]^-1

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



Denominator:

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



embedding 13 [-1, 0, 1, 1]

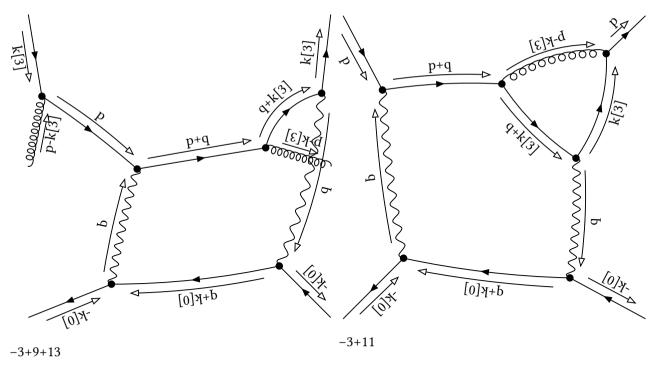
initial

Denominator:

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

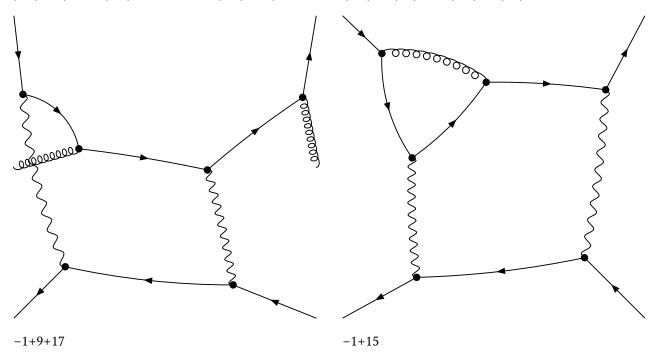
Partial Fractioned Denominator:

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



Denominator:

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



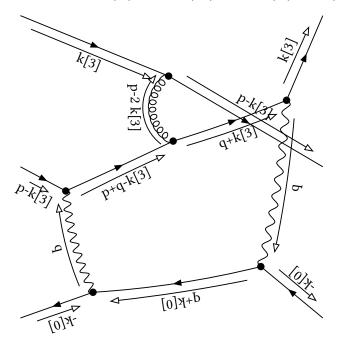
embedding 14 [-1, 0, 1, 2]

initial

Denominator:

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

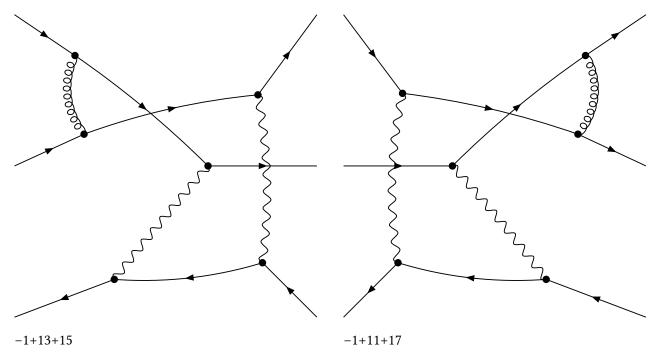
```
-(2 dot[p,q]+2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 dot[p,p]^-1
+(2 dot[p,q]+2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,q+k[3]]^-1 prop[0,p+q-k[3]]^-1 dot[p,p]^-1
-(2 dot[p,q]+2 dot[q,q])^-1 prop[0,k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p+q-k[3]]^-1 dot[p,p]^-1
+(2 dot[p,q]+2 dot[q,q])^-1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



-3+11+13

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



embedding 15 [-1, 0, 2, 1]

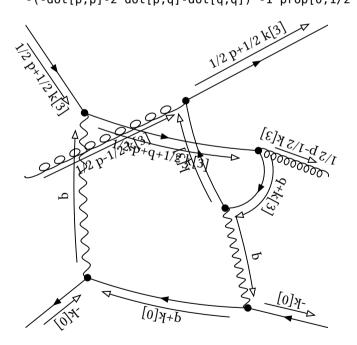
initial

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

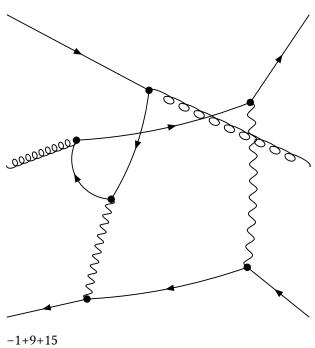
Partial Fractioned Denominator:

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



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



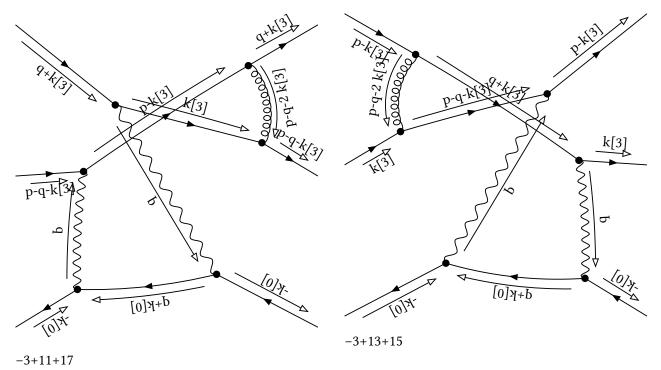
embedding 16 [-1, 1, 1, 2]

initial

Denominator:

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

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



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

