embedding 1 [1, 0, −1, −2]

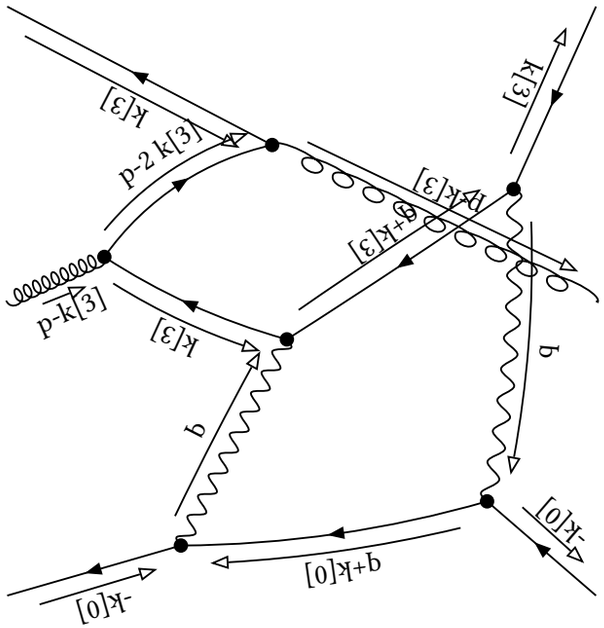
initial

Denominator:

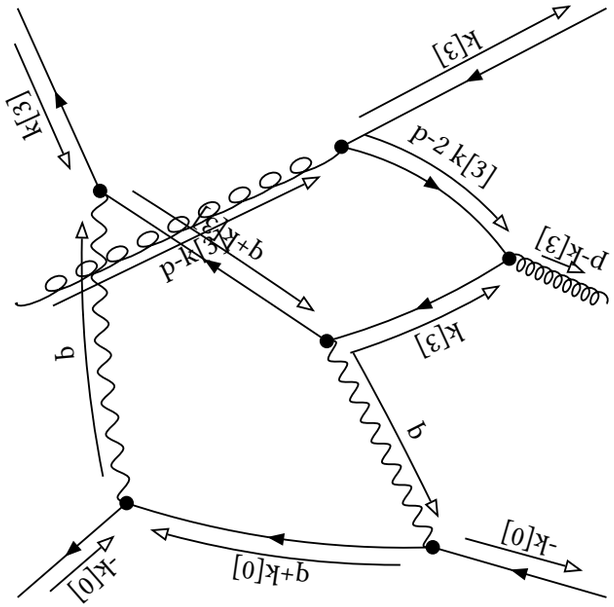
```
prop[0,k[3]]^-2 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 prop[0,p-2 k[3]]^-1
```

Partial Fractioned Denominator:

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



−3+10+12

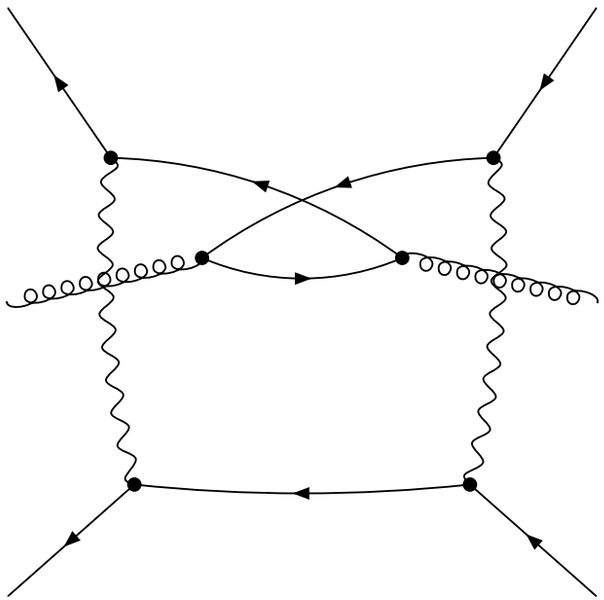


−3+10+14

final

Denominator:

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



−1+10+16

embedding 2 [1, 0, −1, −1]

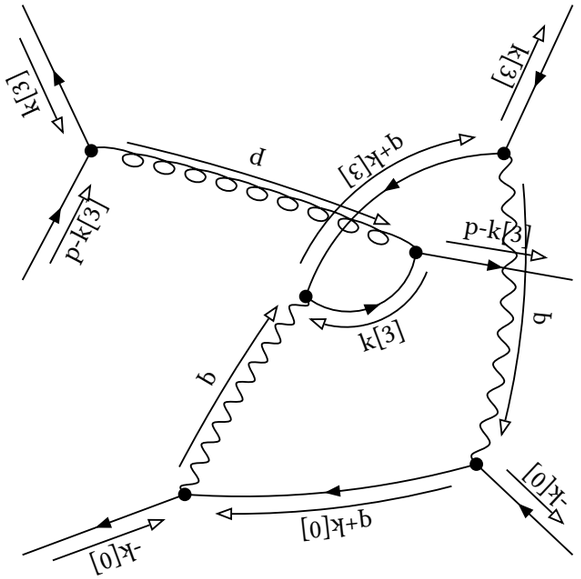
initial

Denominator:

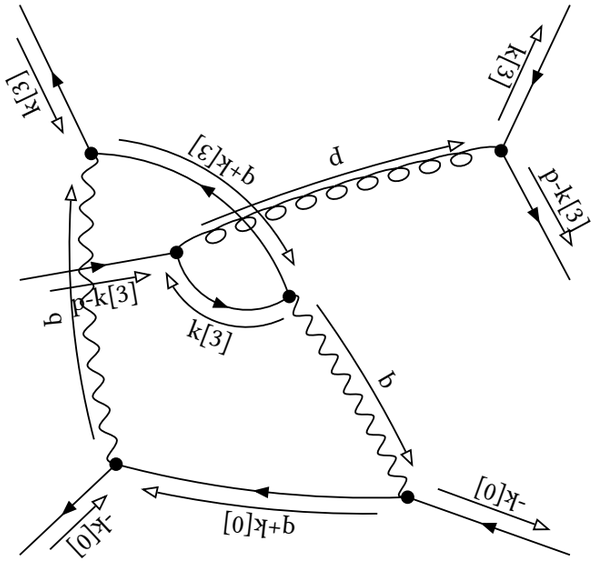
```
prop[0,p]^-1 prop[0,k[3]]^-2 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1
```

Partial Fractioned Denominator:

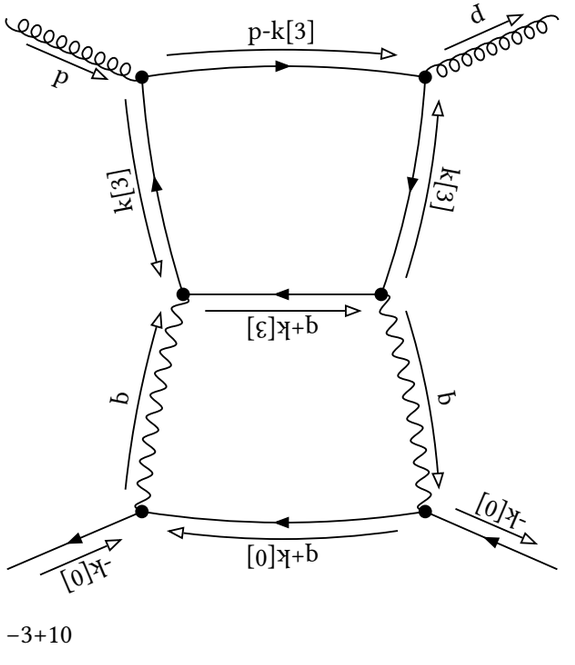
```
prop[0,k[3]]^-2 prop[0,q+k[3]]^-1 prop[0,p-k[3]]^-1 dot[p,p]^-1
```



−3+9+12



−3+9+14

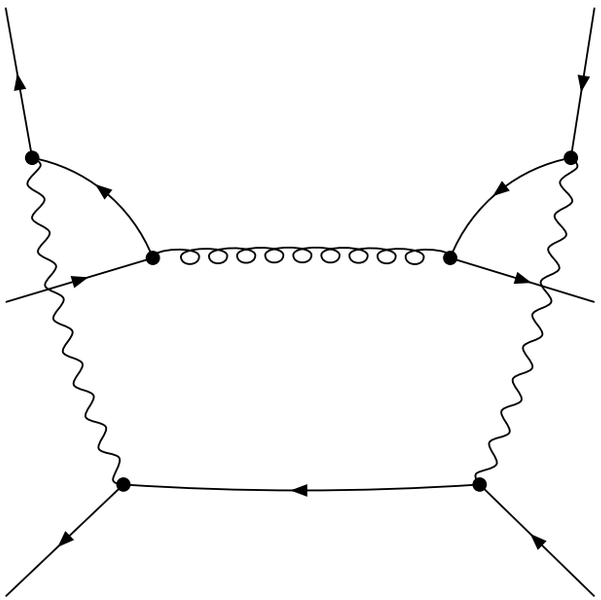


−3+10

final

Denominator:

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



−1+9+16

embedding 3 [1, 0, 0, −1]

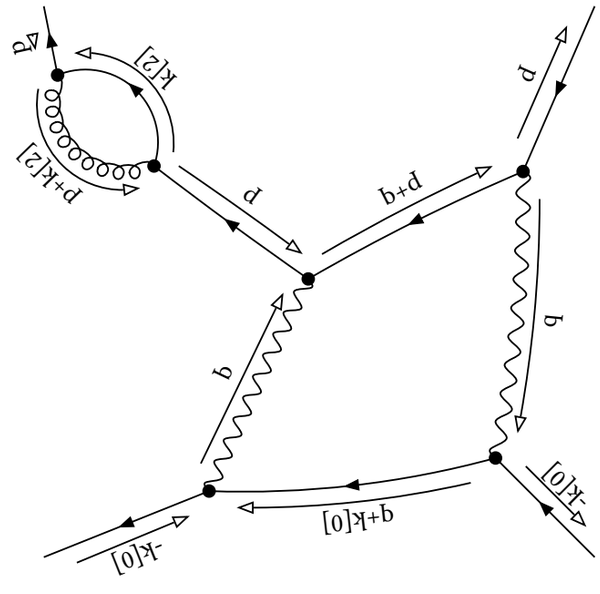
initial

Denominator:

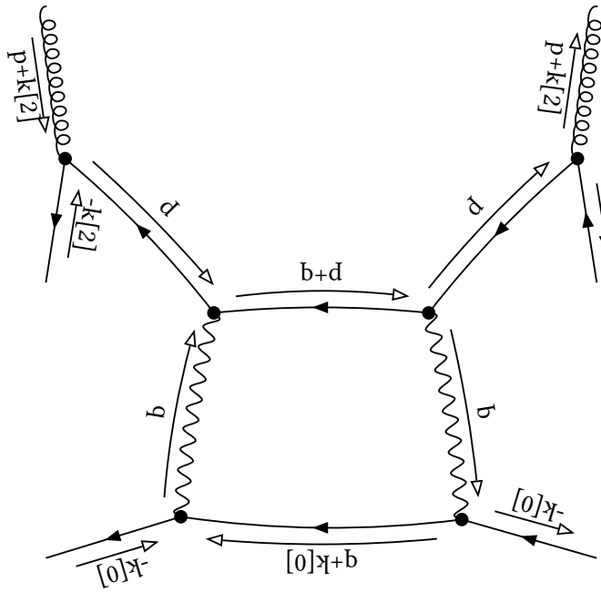
```
prop[0,p]^-2 prop[0,k[2]]^-1 prop[0,p+q]^-1 prop[0,p+k[2]]^-1
```

Partial Fractioned Denominator:

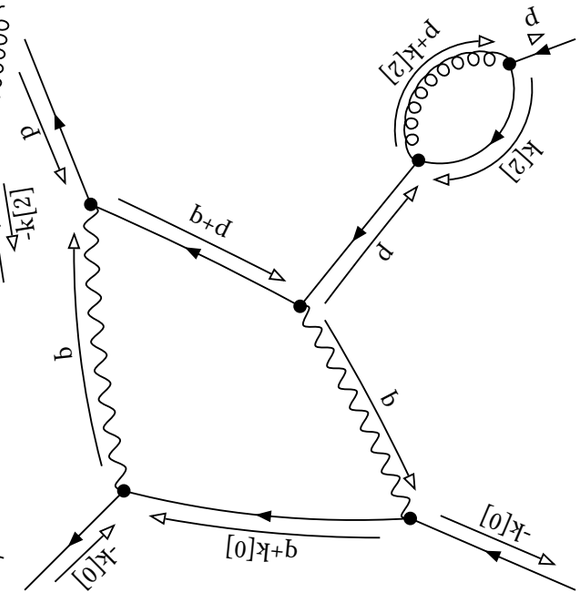
```
(dot[p,p]+2 dot[p,q]+dot[q,q])^-1 prop[0,k[2]]^-1 prop[0,p+k[2]]^-1 dot[p,p]^-2
```



−3+12



−3-9+10

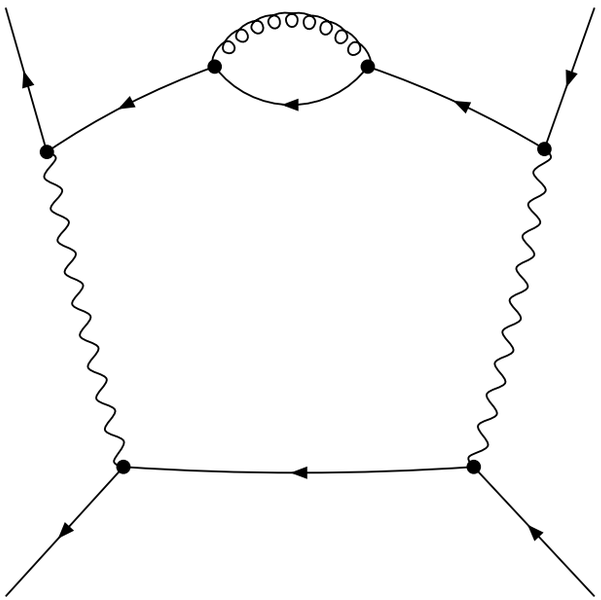


−3+14

final

Denominator:

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



−1+16

embedding 4 [1, 0, 1, −1]

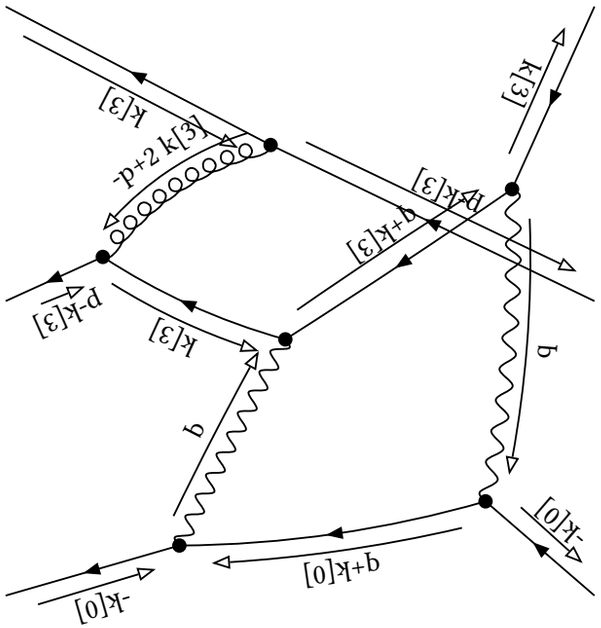
initial

Denominator:

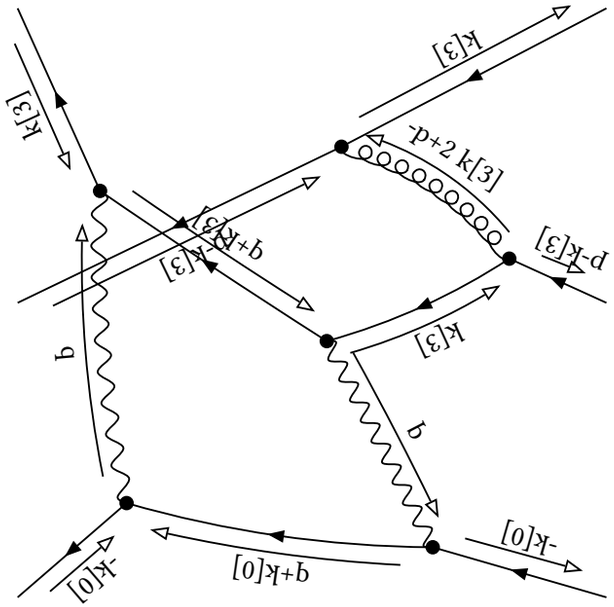
```
prop[0,k[3]]^-2 prop[0,q+k[3]]^-1 prop[0,-p+k[3]]^-1 prop[0,-p+2 k[3]]^-1
```

Partial Fractioned Denominator:

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



−3-9+12

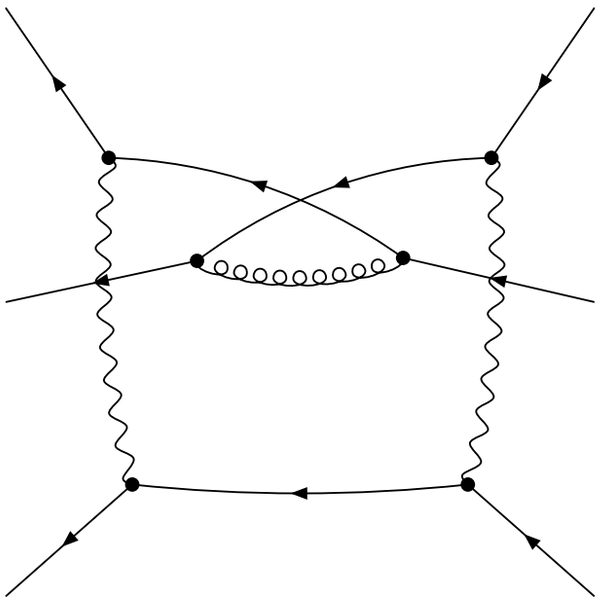


−3-9+14

final

Denominator:

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



−1-9+16

embedding 5 [1, 0, 1, 0]

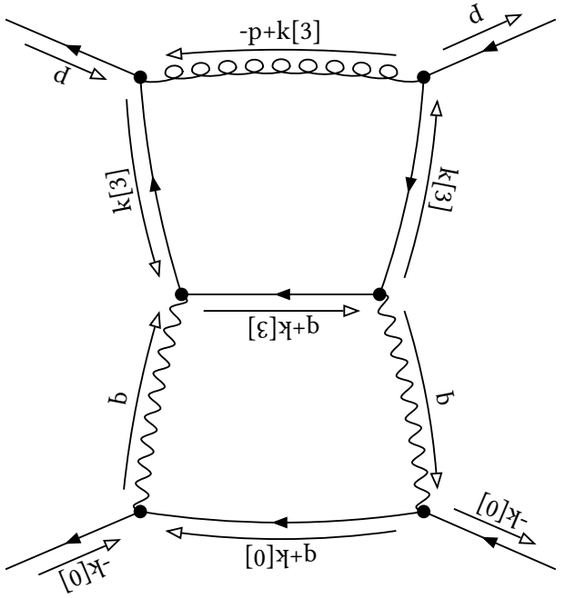
initial

Denominator:

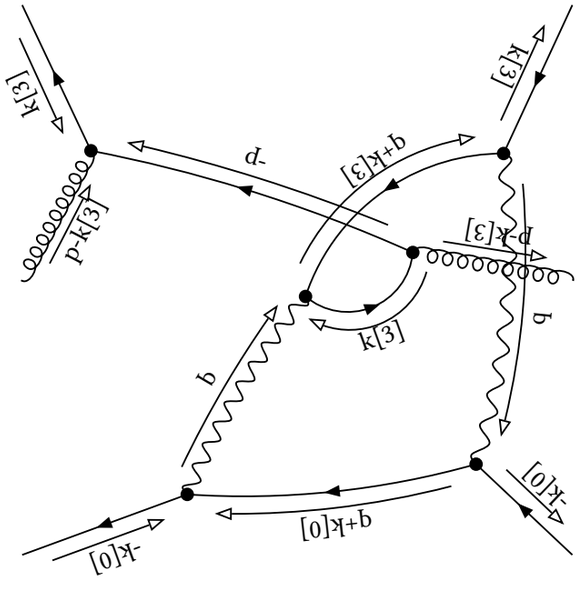
```
prop[0,k[3]]^-2 prop[0,-p]^-1 prop[0,q+k[3]]^-1 prop[0,-p+k[3]]^-1
```

Partial Fractioned Denominator:

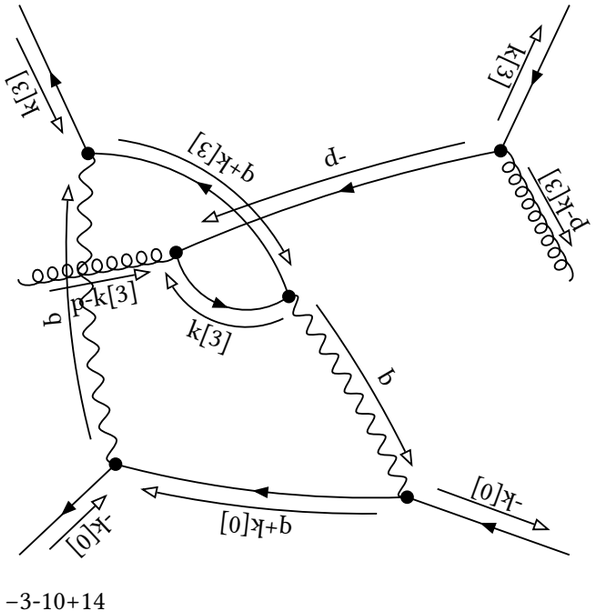
```
prop[0,k[3]]^-2 prop[0,q+k[3]]^-1 prop[0,-p+k[3]]^-1 dot[p,p]^-1
```



−3-9



−3-10+12

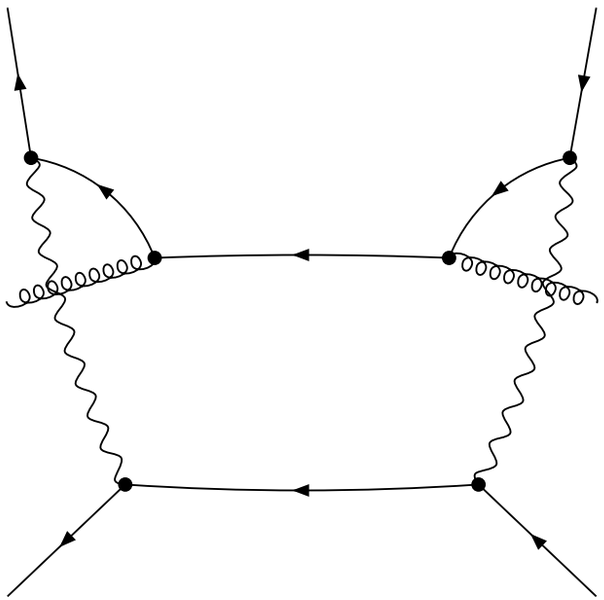


−3-10+14

final

Denominator:

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



−1-10+16

embedding 6 [1, 1, −1, 0]

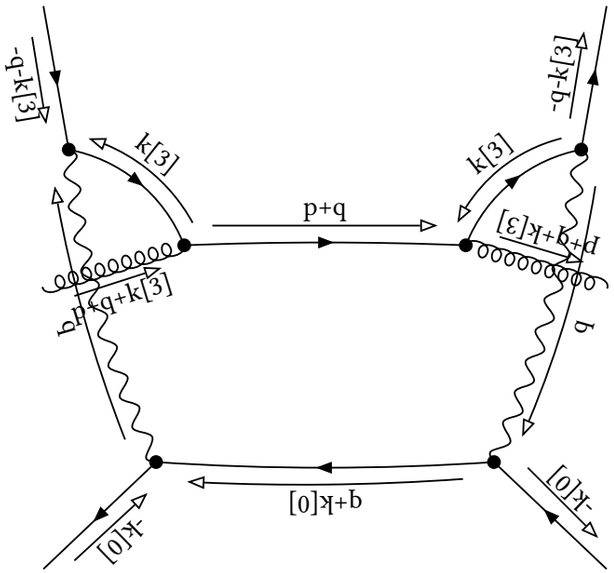
initial

Denominator:

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

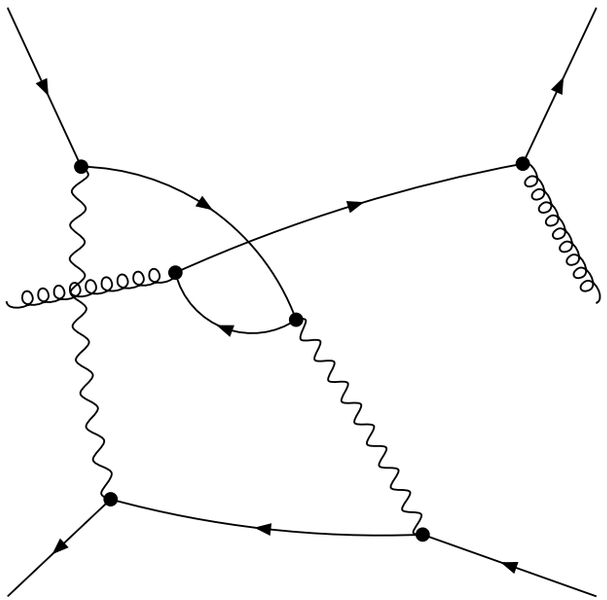


−3+10-16

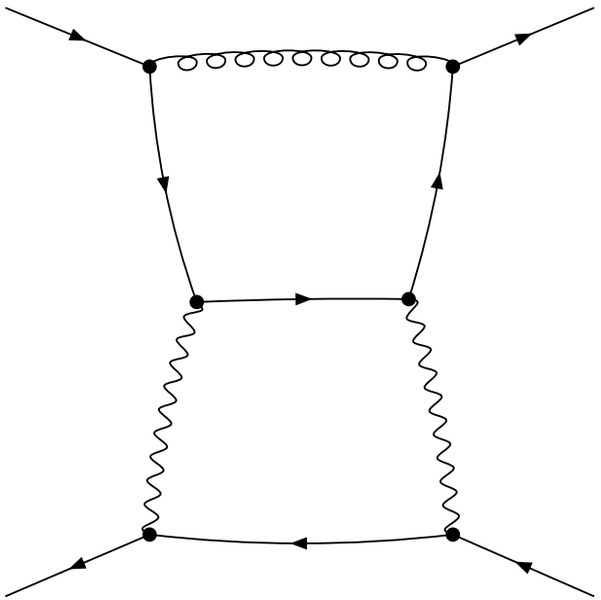
final

Denominator:

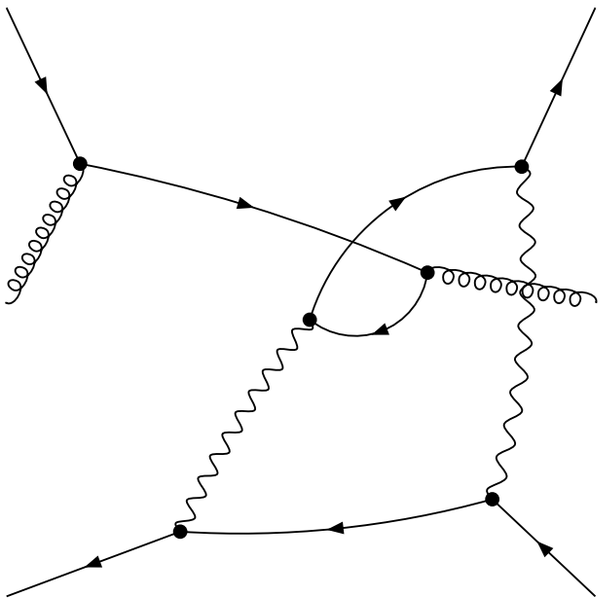
```
prop[0,p]^-1 prop[0,k[3]]^-2 prop[0,p+k[3]]^-1 prop[0,q+k[3]]^-1
```



−1+10-12



−1+9



−1+10-14

embedding 7 [1, 1, −1, 1]

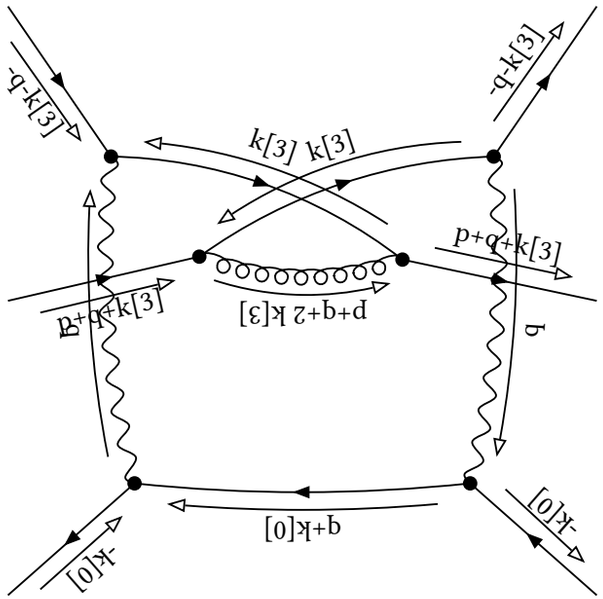
initial

Denominator:

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

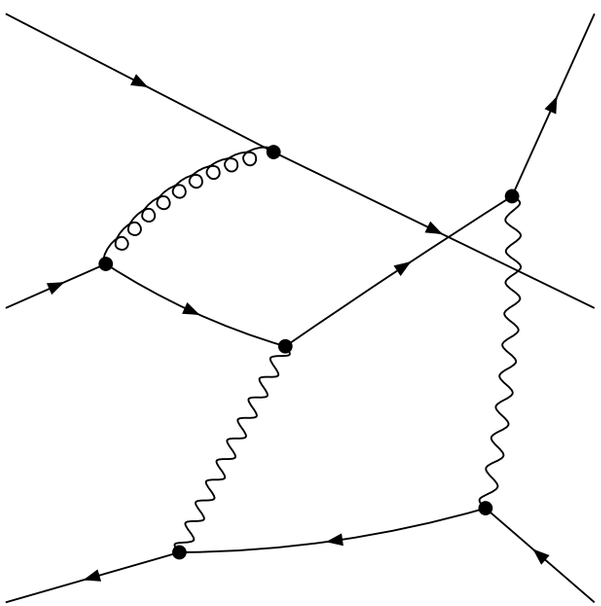


−3+9-16

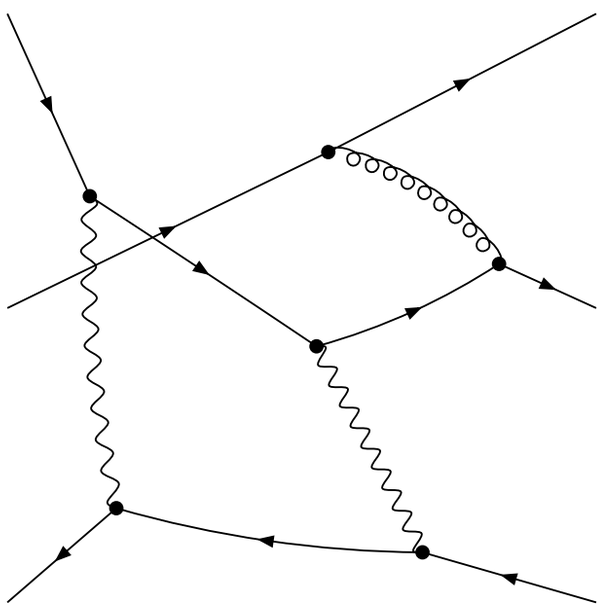
final

Denominator:

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



−1+9-14



−1+9-12

embedding 8 [1, 1, 0, 1]

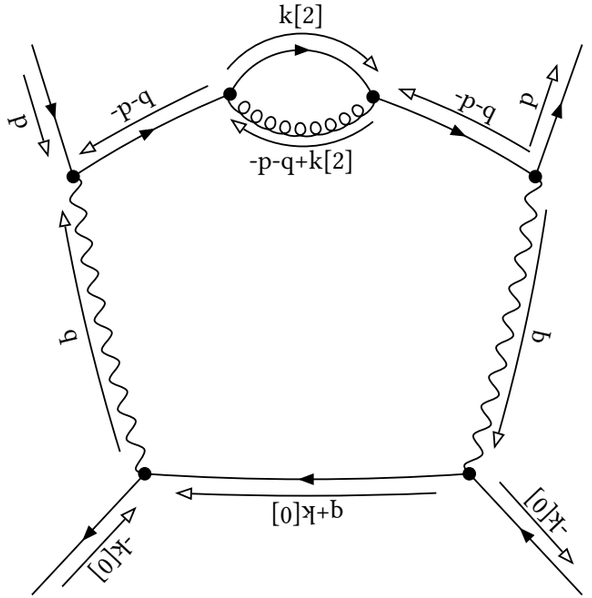
initial

Denominator:

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

Partial Fractioned Denominator:

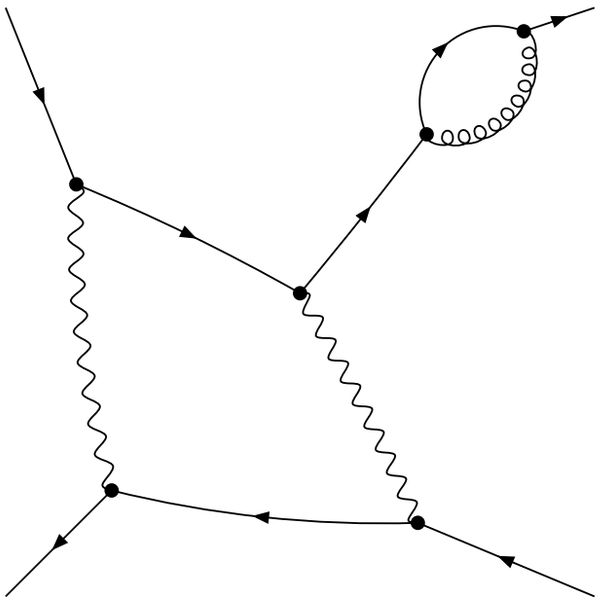
```
(dot[p,p]+2 dot[p,q]+dot[q,q])^-2 prop[0,k[2]]^-1 prop[0,-p-q+k[2]]^-1 dot[p,p]^-1
```



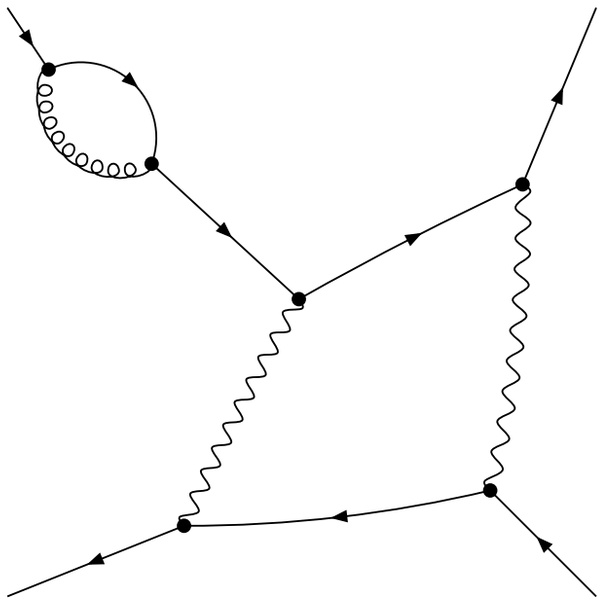
final

Denominator:

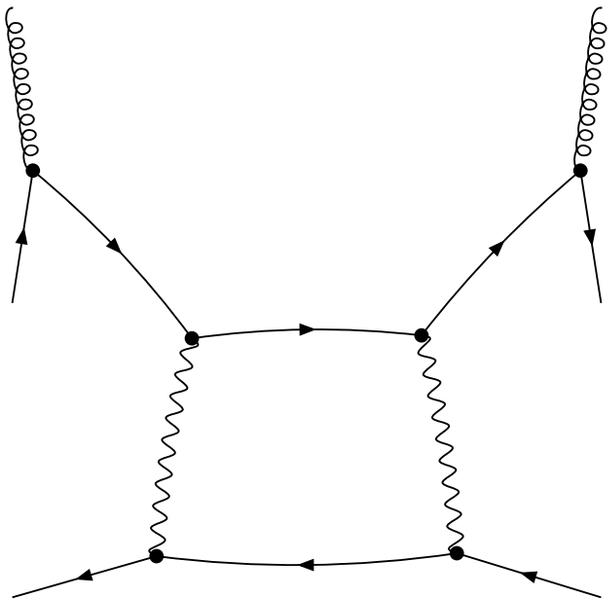
```
prop[0,k[2]]^-1 prop[0,-p]^-2 prop[0,-p+q]^-1 prop[0,-p+k[2]]^-1
```



−1-12



−1-14



−1+9-10

embedding 9 [1, 1, 1, 1]

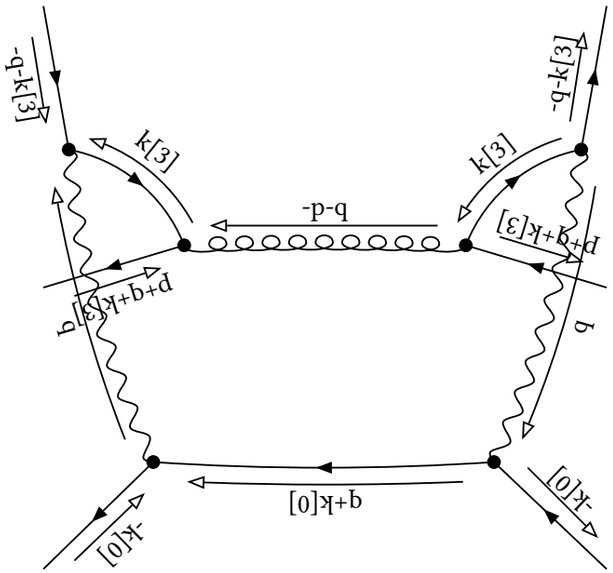
initial

Denominator:

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

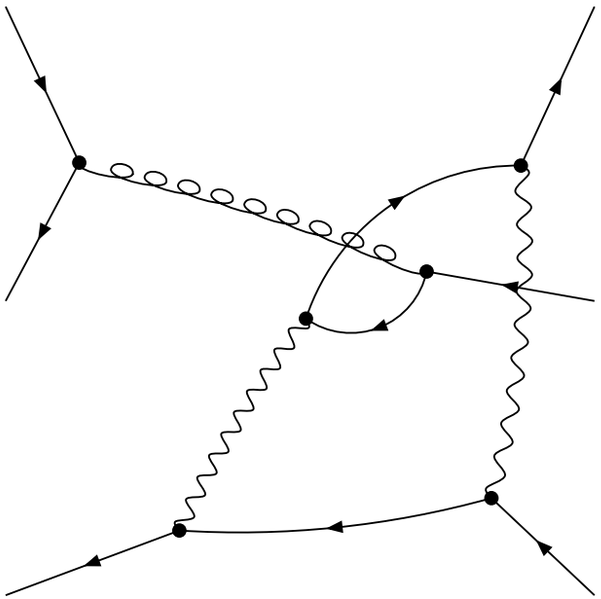


–3-9-16

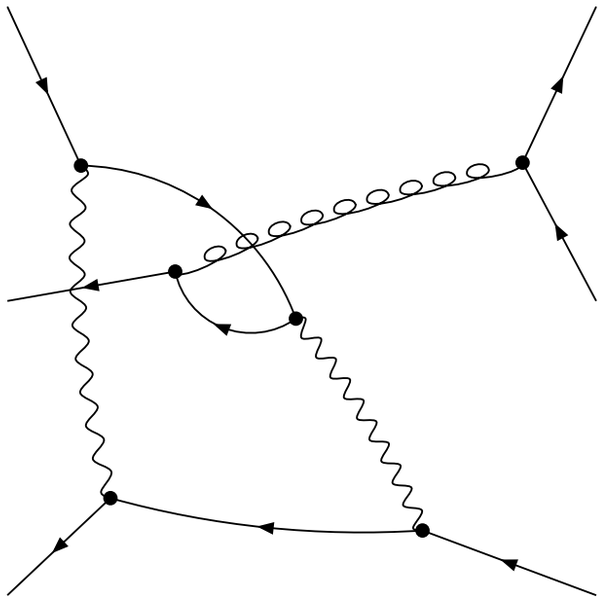
final

Denominator:

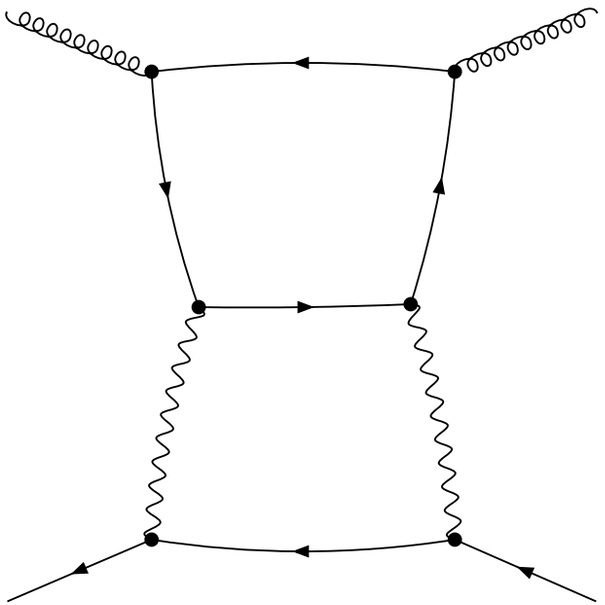
```
prop[0,k[3]]^-2 prop[0,-p]^-1 prop[0,q+k[3]]^-1 prop[0,-p-k[3]]^-1
```



−1-9-14



−1-9-12



−1-10

embedding 10 [1, 1, 1, 2]

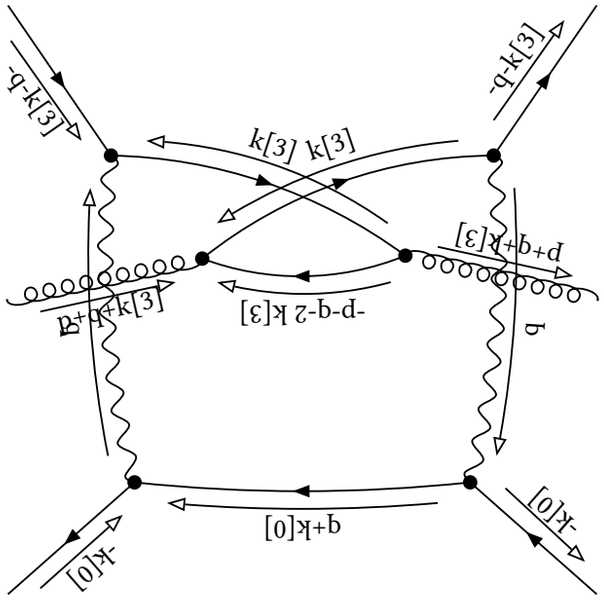
initial

Denominator:

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

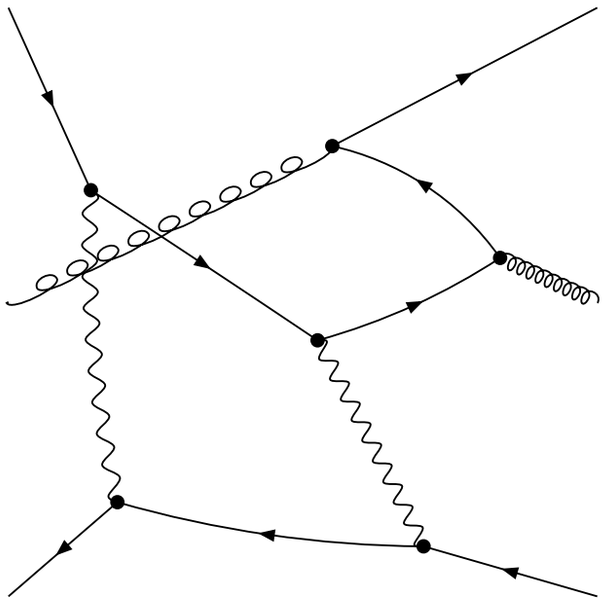


–3-10-16

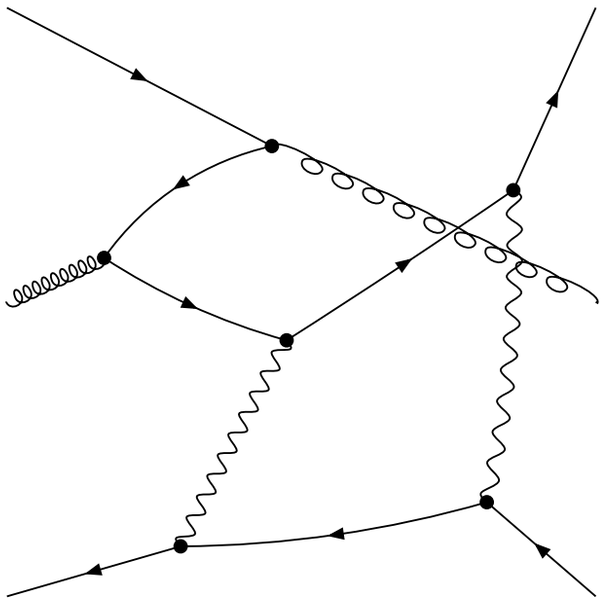
final

Denominator:

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



−1-10-12



−1-10-14