

In> PrettyForm(P);

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/
| ( 0 ) ( 0 ) ( 0 ) ( 1 ) ( 0 ) ( 0 ) ( 0 )
| / -1 \ / 3 \ / -3 \ ( 0 ) / 3 \ / -3 \ / 1 \
| | -- | | -- | | -- | | - | | -- | | -- |
| \ 60 / \ 20 / \ 4 / \ 4 / \ 20 / \ 60 /
|
| / 1 \ / -3 \ / 3 \ / -49 \ / 3 \ / -3 \ / 1 \
| | --- | | -- | | - | | --- | | - | | -- | | --- |
| \ 180 / \ 40 / \ 4 / \ 36 / \ 4 / \ 40 / \ 180 /
|
| / 1 \ / -1 \ / 13 \ ( 0 ) / -13 \ / 1 \ / -1 \
| | -- | | -- | | -- | | --- | | - | | -- |
| \ 48 / \ 6 / \ 48 / \ 48 / \ 6 / \ 48 /
|
| / -1 \ / 1 \ / -13 \ / 7 \ / -13 \ / 1 \ / -1 \
| | --- | | -- | | --- | | -- | | --- | | -- | | --- |
| \ 144 / \ 12 / \ 48 / \ 18 / \ 48 / \ 12 / \ 144 /
|
| / -1 \ / 1 \ / -1 \ ( 0 ) / 1 \ / -1 \ / 1 \
| | --- | | -- | | -- | | - | | - | | --- |
| \ 240 / \ 60 / \ 48 / \ 48 / \ 60 / \ 240 /
|
| / 1 \ / -1 \ / 1 \ / -1 \ / 1 \ / -1 \ / 1 \
| | --- | | --- | | -- | | -- | | -- | | --- | | --- |
| \ 720 / \ 120 / \ 48 / \ 36 / \ 48 / \ 120 / \ 720 /
\

```

Out> True

In> X01 := { 1, 1/4, (1/4)^2, (1/4)^3, (1/4)^4, (1/4)^5, (1/4)^6 }

Out> {1,1/4,1/16,1/64,1/256,1/1024,1/4096}

In> X02 := { 1, 1/2, (1/2)^2, (1/2)^3, (1/2)^4, (1/2)^5, (1/2)^6 }

Out> {1,1/2,1/4,1/8,1/16,1/32,1/64}

In> X03 := { 1, 3/4, (3/4)^2, (3/4)^3, (3/4)^4, (3/4)^5, (3/4)^6 }

Out> {1,3/4,9/16,27/64,81/256,243/1024,729/4096}

In> X0 := { X01, X02, X03 }

Out> {{1,1/4,1/16,1/64,1/256,1/1024,1/4096},{1,1/2,1/4,1/8,1/16,1/32,1/64},
{1,3/4,9/16,27/64,81/256,243/1024,729/4096}}

In> PrettyForm(X0)

```

/
| ( 1 ) / 1 \ / 1 \ / 1 \ / 1 \ / 1 \ / 1 \
| | - | | -- | | -- | | --- | | ---- | | ---- |
| \ 4 / \ 16 / \ 64 / \ 256 / \ 1024 / \ 4096 /
|
| ( 1 ) / 1 \ / 1 \ / 1 \ / 1 \ / 1 \ / 1 \
| | - | | - | | - | | -- | | -- | | -- |
| \ 2 / \ 4 / \ 8 / \ 16 / \ 32 / \ 64 /
|
| ( 1 ) / 3 \ / 9 \ / 27 \ / 81 \ / 243 \ / 729 \
| | - | | -- | | -- | | --- | | ---- | | ---- |
| \ 4 / \ 16 / \ 64 / \ 256 / \ 1024 / \ 4096 /
\

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Out> True

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In> Y0 := X0 * P;
Out> {{(-231)/65536,1001/32768,(-9009)/65536,15015/16384,15015/65536,(-
1287)/32768,273/65536},{(-5)/1024,21/512,(-175)/1024,175/256,525/1024,(-
35)/512,7/1024},{(-231)/65536,945/32768,(-7425)/65536,5775/16384,51975/65536,(-
2079)/32768,385/65536}}
In> PrettyForm(Y0);

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/
| / -231 \ / 1001 \ / -9009 \ / 15015 \ / 15015 \ / -1287 \ / 273 \
| | ----- | | ----- | | ----- | | ----- | | ----- | | ----- |
| \ 65536 / \ 32768 / \ 65536 / \ 16384 / \ 65536 / \ 32768 / \ 65536 /
|
| / -5 \ / 21 \ / -175 \ / 175 \ / 525 \ / -35 \ / 7 \
| | ---- | | --- | | ---- | | --- | | ---- | | --- | | ---- |
| \ 1024 / \ 512 / \ 1024 / \ 256 / \ 1024 / \ 512 / \ 1024 /
|
| / -231 \ / 945 \ / -7425 \ / 5775 \ / 51975 \ / -2079 \ / 385 \
| | ----- | | ----- | | ----- | | ----- | | ----- | | ----- |
| \ 65536 / \ 32768 / \ 65536 / \ 16384 / \ 65536 / \ 32768 / \ 65536 /
\

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Out> True
In>

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