Dilated Coordinates

Find the dilated coordinates with the given scale factor. Also draw the dilated image.

1) Scale factor = 2

2) Scale factor = 0.5

3) Scale factor = \( \frac{1}{4} \)

<table>
<thead>
<tr>
<th>Scale factor</th>
<th>Dilated Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>P': , R':</td>
</tr>
<tr>
<td>0.5</td>
<td>, Y':</td>
</tr>
<tr>
<td>( \frac{1}{4} )</td>
<td>K': , L':</td>
</tr>
<tr>
<td></td>
<td>A': , B':</td>
</tr>
<tr>
<td></td>
<td>M': , N':</td>
</tr>
<tr>
<td></td>
<td>, C': , D':</td>
</tr>
</tbody>
</table>

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1) Scale factor = 2

2) Scale factor = 0.5

3) Scale factor = 1/4

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**Dilated Coordinates**

**Scale factor = 2**

- **P'**: (-8, -4)
- **R'**: (8, 2)

**Scale factor = 0.5**

- **Y'**: (8, 7)

**Scale factor = 1/4**

- **K'**: (1, -2)
- **L'**: (2, -1)
- **M'**: (1, 0)
- **N'**: (0, -1)
- **A'**: (-3, -9)
- **B'**: (3, 3)
- **C'**: (-3, 9)
- **D'**: (-9, 3)

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