



MATHS

BOOKS - PSEB

SYMMETRY

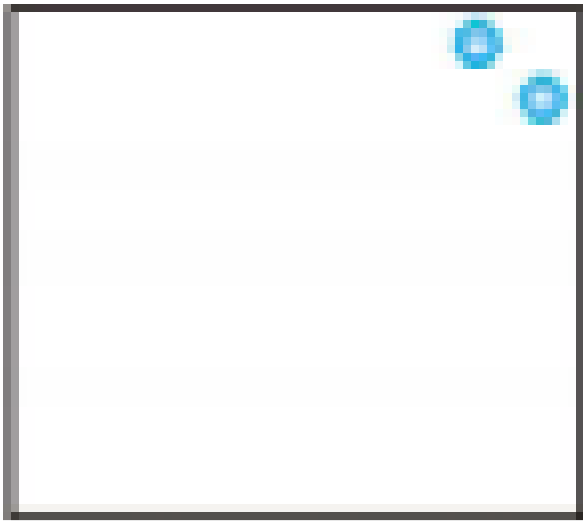
Example

1. Copy the figures with punched holes and find the axes of symmetry for the following:



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2. Copy the figures with punched holes and find the axes of symmetry for the following:

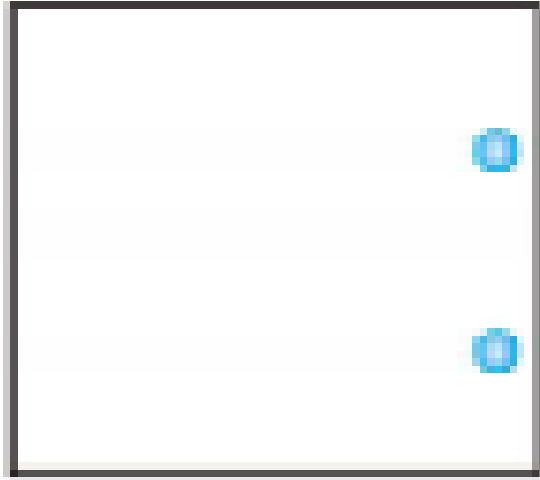


(b)



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3. Copy the figures with punched holes and find the axes of symmetry for the following:

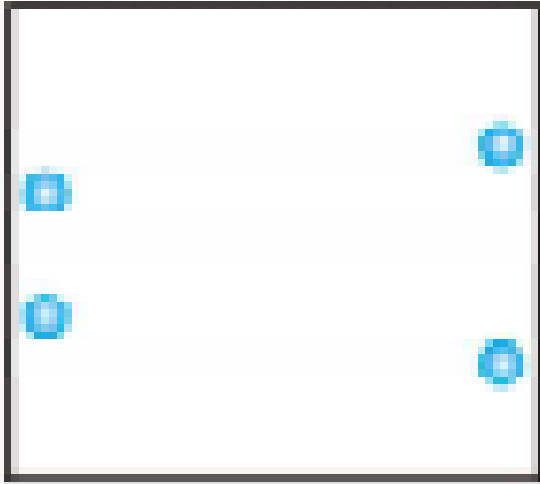


(e)



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4. Copy the figures with punched holes and find the axes of symmetry for the following:



(d)

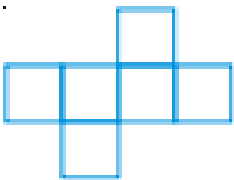


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5. Copy the figures with punched holes and find the axes of symmetry for the following:

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6. Copy the figures with punched holes and find the axes of symmetry for the following:



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7. Copy the figures with punched holes and find the axes of symmetry for the following:



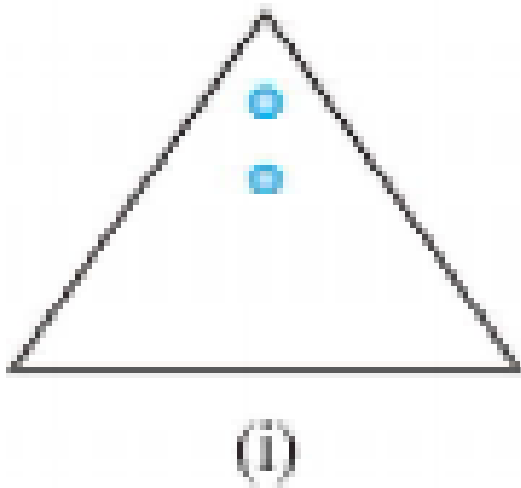
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8. Copy the figures with punched holes and find the axes of symmetry for the following:



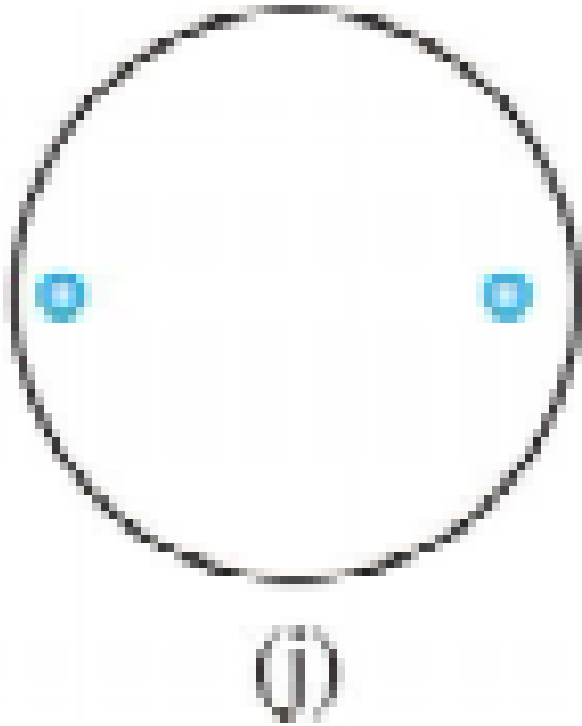
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9. Copy the figures with punched holes and find the axes of symmetry for the following:



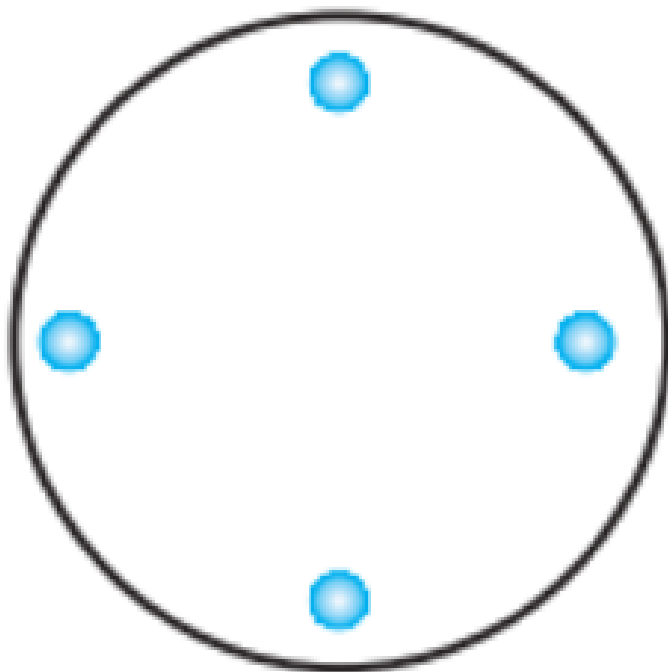
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10. Copy the figures with punched holes and find the axes of symmetry for the following:



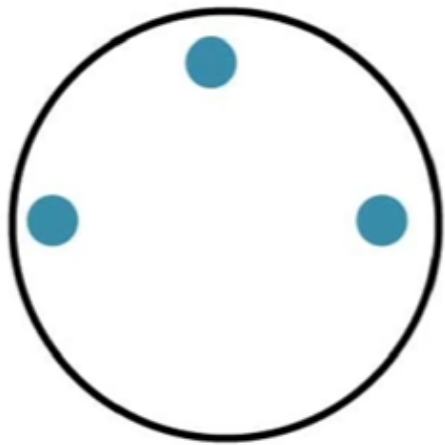
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11. Copy the figures with punched holes and find the axes of symmetry for the following:



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12. Copy the figures with punched holes and find the axes of symmetry for the following:



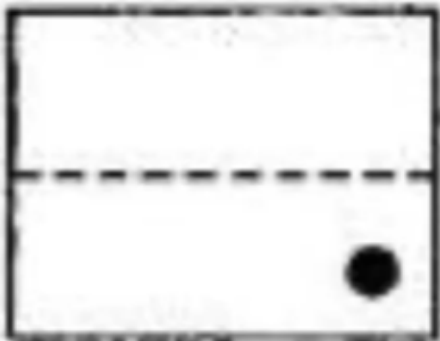
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13. Given the line(s) of symmetry, find the other hole(s):



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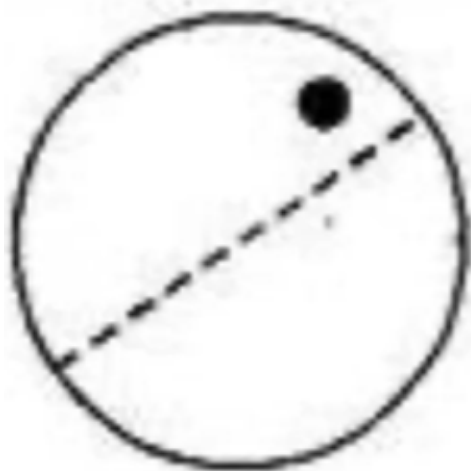
14. Given the line(s) of symmetry, find the other hole(s):





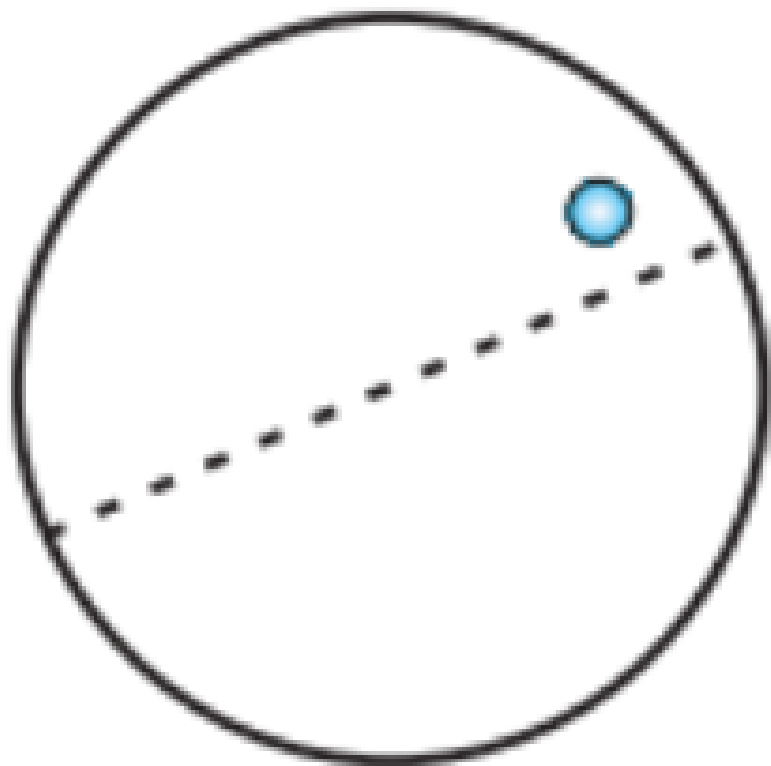
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15. Given the line(s) of symmetry, find the other hole(s):



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16. Given the line(s) of symmetry, find the other hole(s):



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17. In the following figures, the mirror line (i.e., the line of symmetry) is given as a dotted line. Complete each figure performing reflection in the dotted (mirror) line. (You might perhaps place a mirror along the dotted line and look into the mirror for the image). Are you able to

recall the name of the figure you complete?



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18. In the following figures, the mirror line (i.e., the line of symmetry) is given as a dotted line. Complete each figure performing reflection in the dotted (mirror) line. (You might perhaps place a mirror along the dotted line and look into the mirror for the image). Are you able to

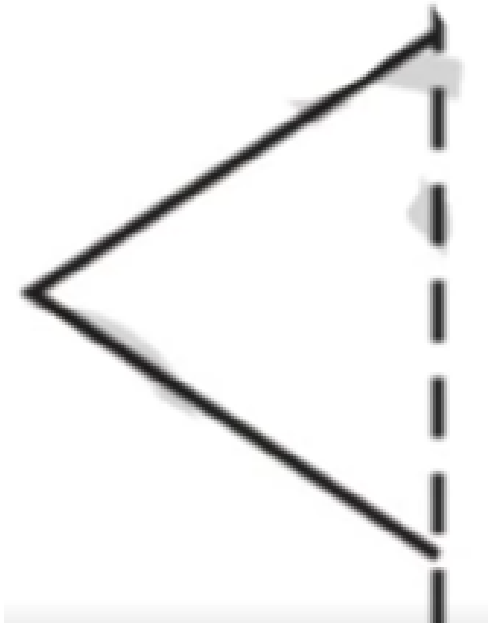
recall the name of the figure you complete?



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19. In the following figures, the mirror line (i.e., the line of symmetry) is given as a dotted line.

Complete each figure performing reflection in the dotted (mirror) line. (You might perhaps place a mirror along the dotted line and look into the mirror for the image). Are you able to recall the name of the figure you complete?



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20. In the following figures, the mirror line (i.e., the line of symmetry) is given as a dotted line. Complete each figure performing reflection in the dotted (mirror) line. (You might perhaps place a mirror along the dotted line and look into the mirror for the image). Are you able to

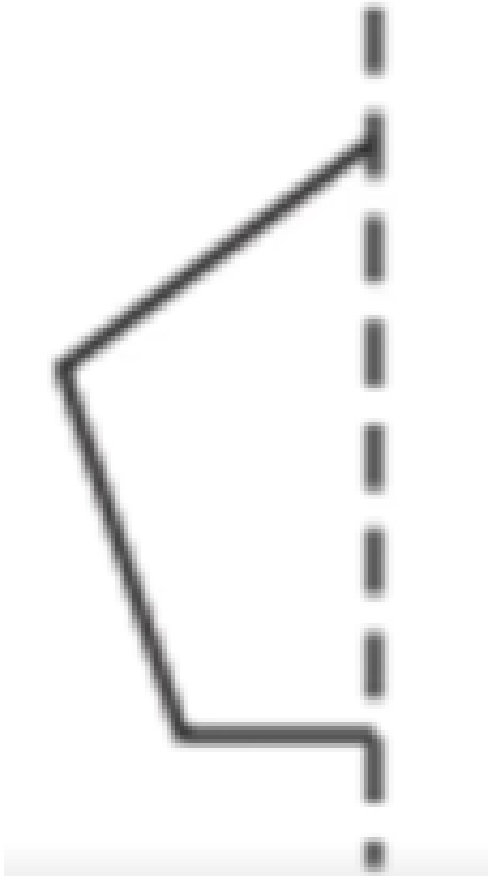
recall the name of the figure you complete?



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21. In the following figures, the mirror line (i.e., the line of symmetry) is given as a dotted line. Complete each figure performing reflection in the dotted (mirror) line. (You might perhaps place a mirror along the dotted line and look into the mirror for the image). Are you able to

recall the name of the figure you complete?



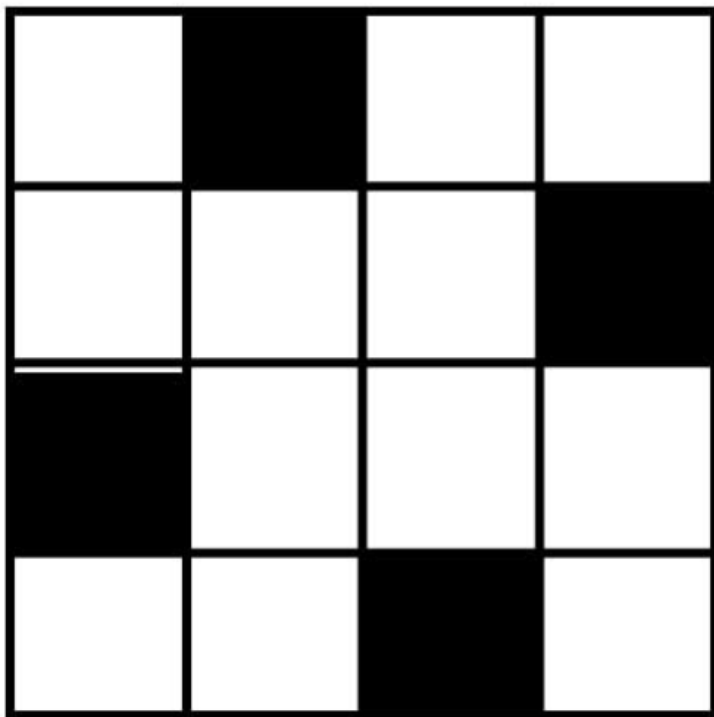
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22. In the following figures, the mirror line (i.e., the line of symmetry) is given as a dotted line. Complete each figure performing reflection in the dotted (mirror) line. (You might perhaps place a mirror along the dotted line and look into the mirror for the image). Are you able to recall the name of the figure you complete?



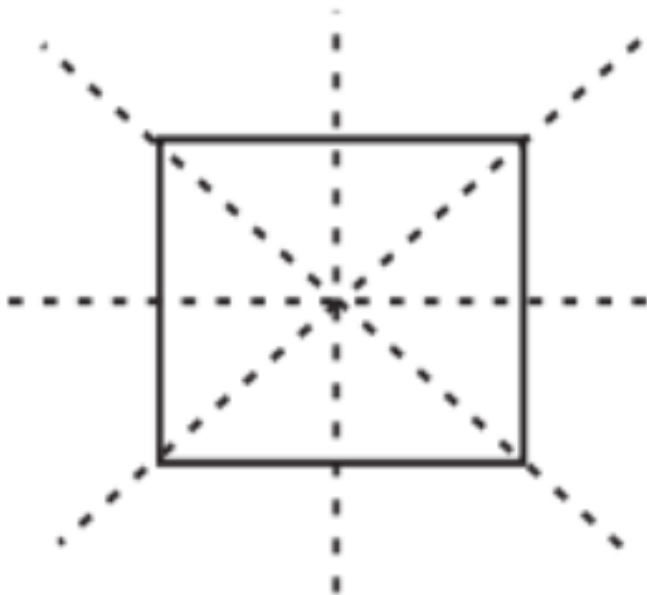
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23. The following figures have more than one line of symmetry. Such figures are said to have multiple lines of symmetry.



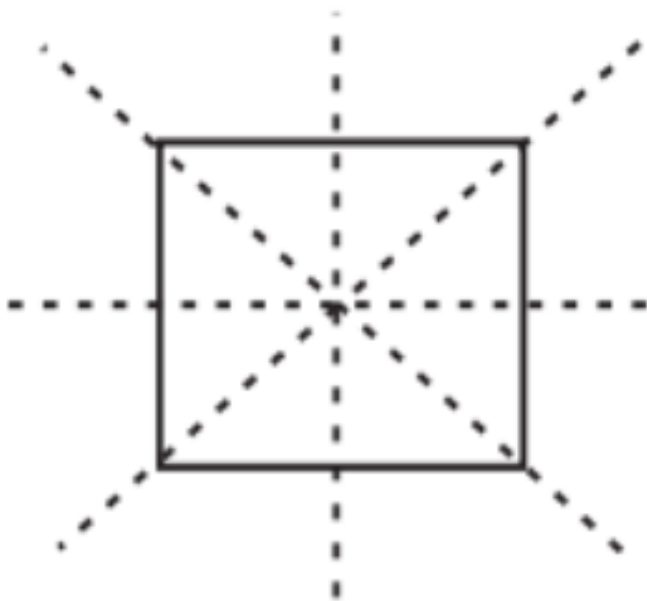
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24. The following figures have more than one line of symmetry. Such figures are said to have multiple lines of symmetry.



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25. The following figures have more than one line of symmetry. Such figures are said to have multiple lines of symmetry.

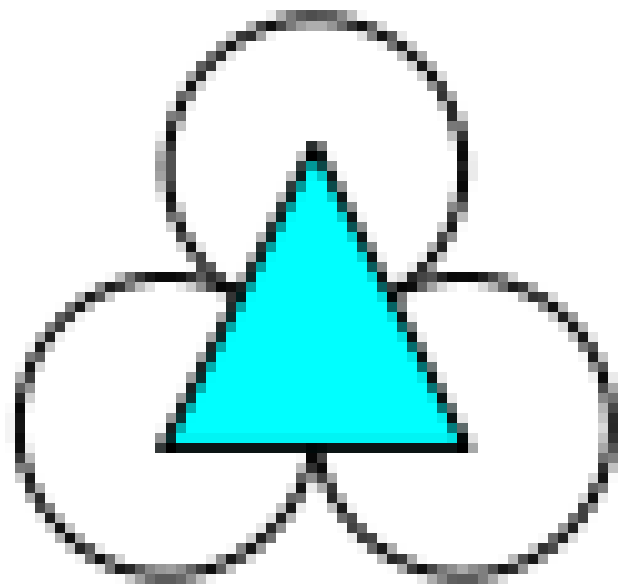


Identify the number of lines of symmetry



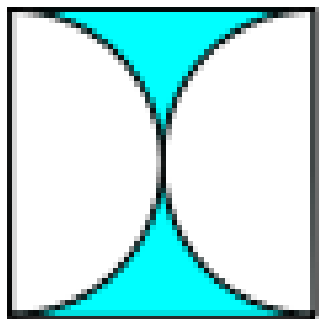
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26. Identify multiple lines of symmetry, if any, in each of the following figures:



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27. Identify multiple lines of symmetry, if any, in each of the following figures:

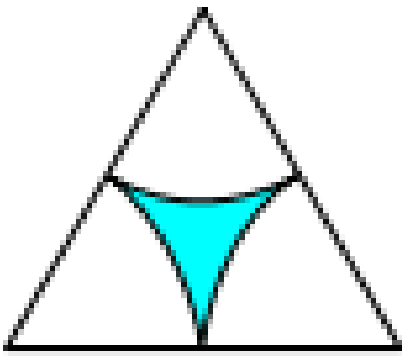


(b)



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28. Identify multiple lines of symmetry, if any, in each of the following figures:

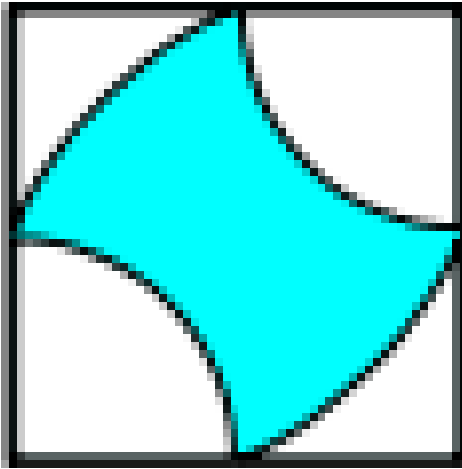


(c)



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29. Identify multiple lines of symmetry, if any, in each of the following figures:

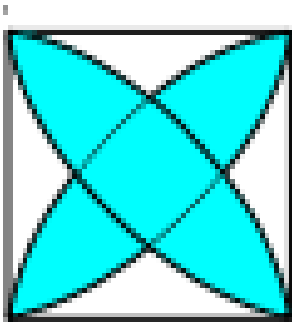


(d)



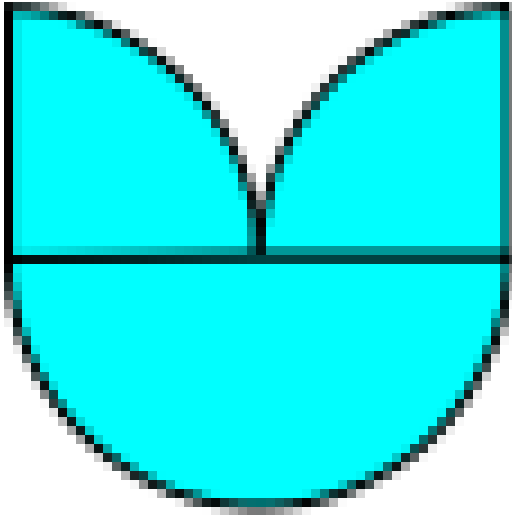
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30. Identify multiple lines of symmetry, if any, in each of the following figures:



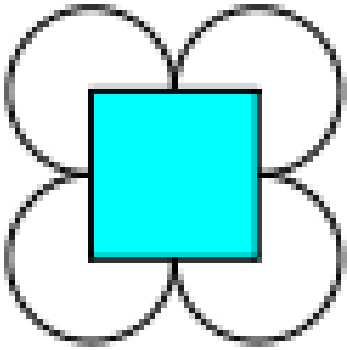
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31. Identify multiple lines of symmetry, if any, in each of the following figures:



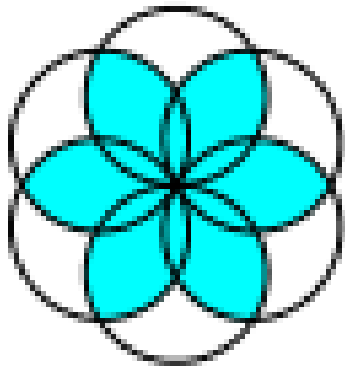
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32. Identify multiple lines of symmetry, if any, in each of the following figures:



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33. Identify multiple lines of symmetry, if any, in each of the following figures:



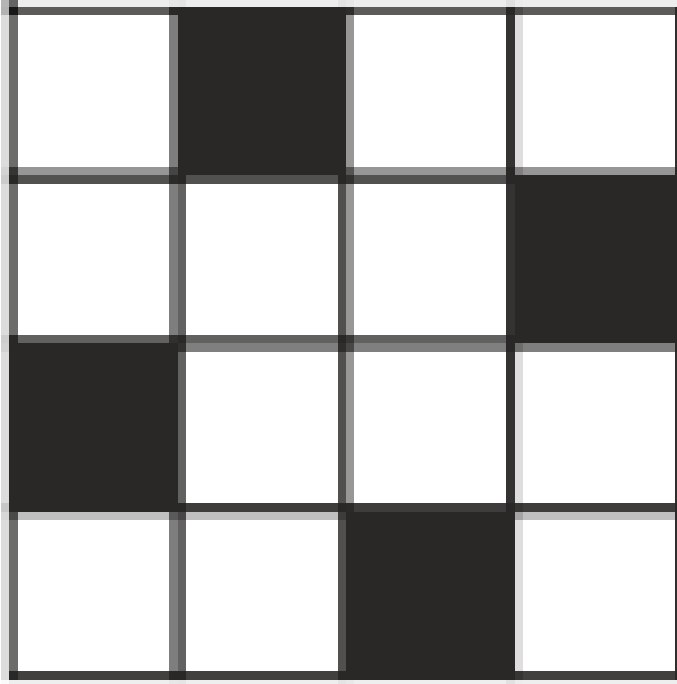
(h)



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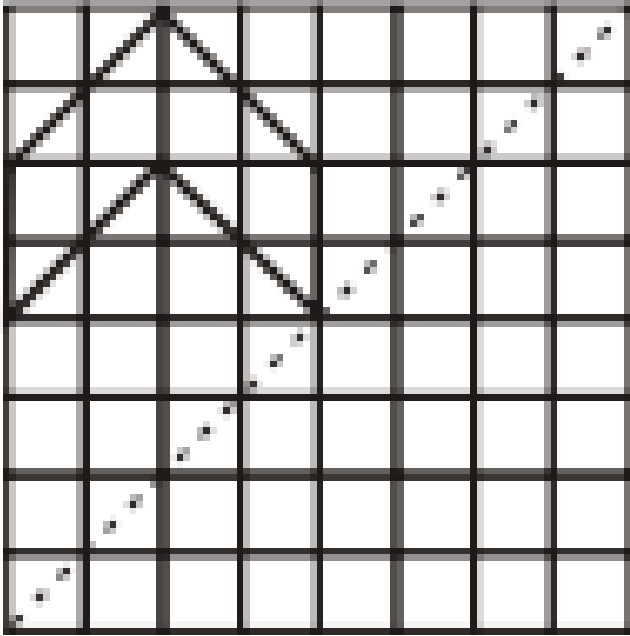
34. Copy the figure given here. Take any one diagonal as a line of symmetry and shade a few more squares to make the figure symmetric about a diagonal. Is there more

than one way to do that? Will the figure be symmetric about both the diagonals?



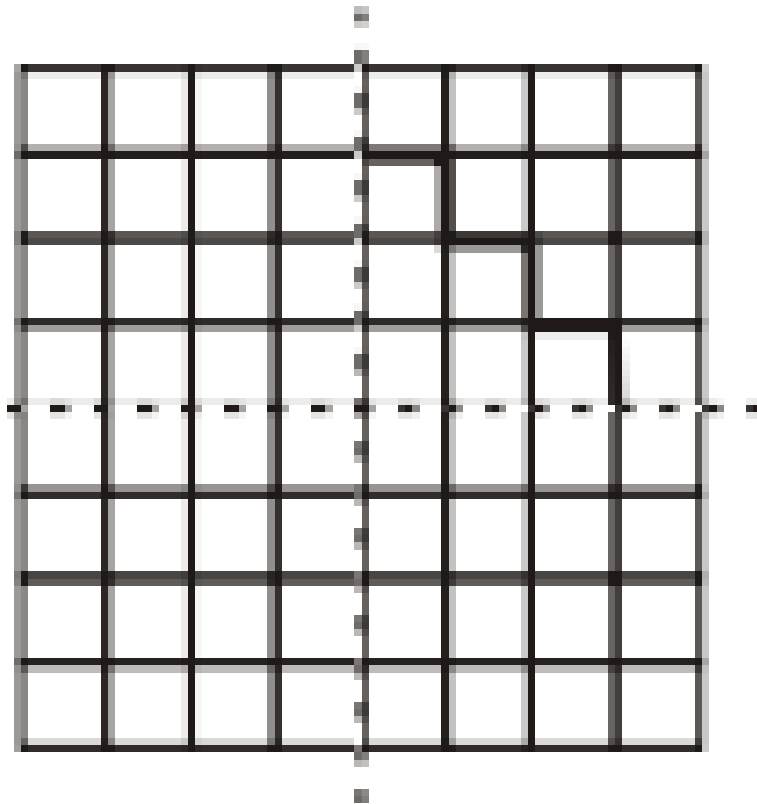
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35. Copy the diagram and complete each shape to be symmetric about the mirror line(s)



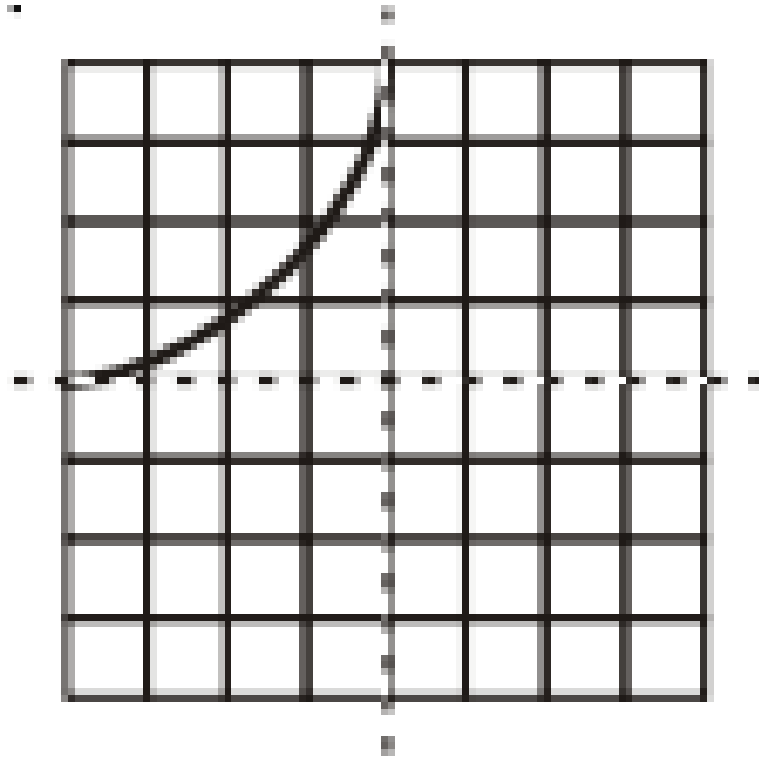
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36. Copy the diagram and complete each shape to be symmetric about the mirror line(s)



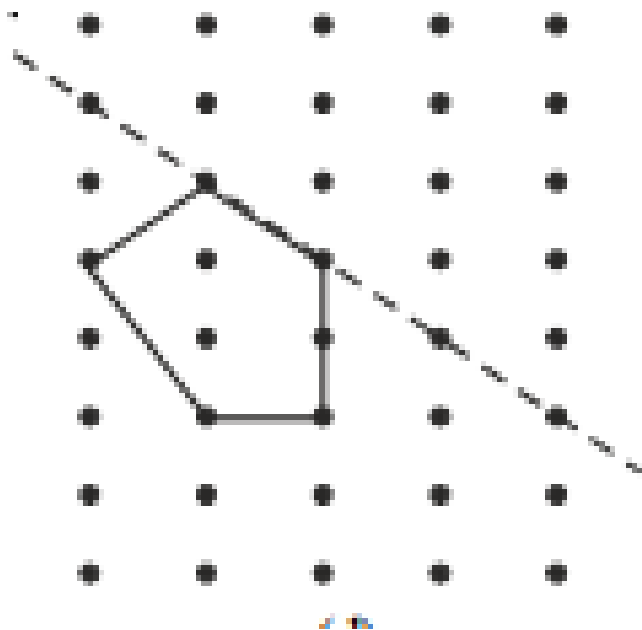
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37. Copy the diagram and complete each shape to be symmetric about the mirror line(s)



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38. Copy the diagram and complete each shape to be symmetric about the mirror line(s)



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39. State the number of lines of symmetry for the following figures:

An equilateral triangle



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40. State the number of lines of symmetry for the following figures:

An isosceles triangle



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41. State the number of lines of symmetry for the following figures:

A scalene triangle



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42. State the number of lines of symmetry for the following figures:

A square



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43. State the number of lines of symmetry for the following figures:

A rectangle



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44. State the number of lines of symmetry for the following figures:

A rhombus



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45. State the number of lines of symmetry for the following figures:

A parallelogram



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46. State the number of lines of symmetry for the following figures:

A quadrilateral



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47. State the number of lines of symmetry for the following figures:

A regular hexagon



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48. State the number of lines of symmetry for the following figures:

A circle



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49. What letters of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about.

a vertical mirror



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50. What letters of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about.

a horizontal mirror



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51. What letters of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about.

both horizontal and vertical mirrors



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52. Give three examples of shapes with no line of symmetry.



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53. What other name can you give to the line of symmetry of an isosceles triangle?



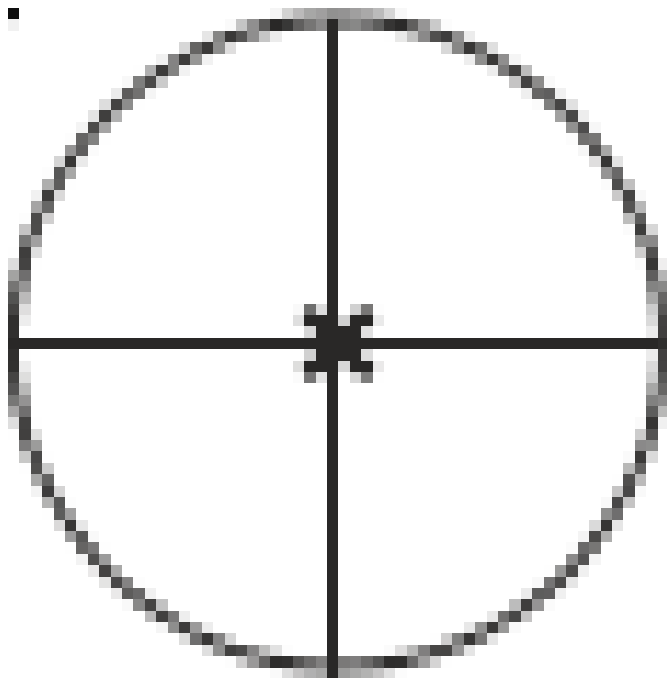
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54. What other name can you give to the line of symmetry of a circle?



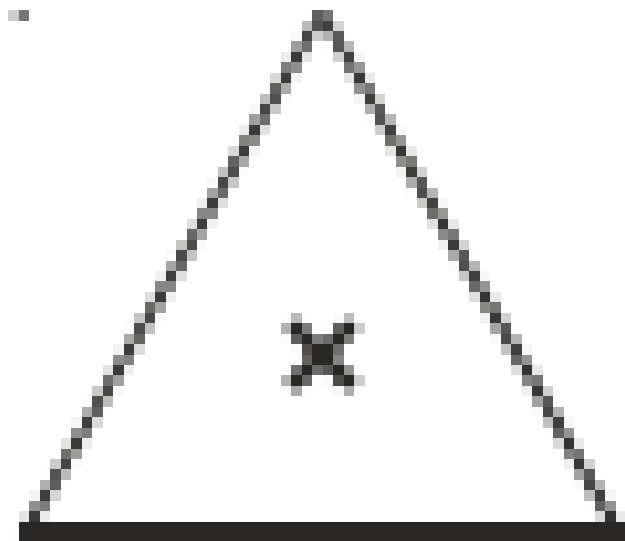
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55. Which of the following figures have rotational symmetry of order more than 1:



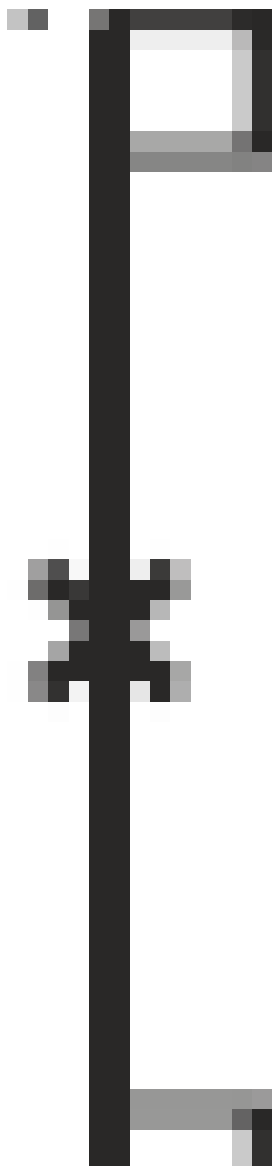
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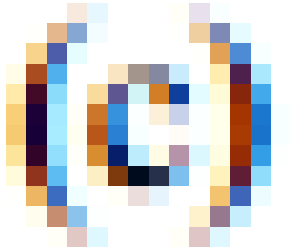
56. Which of the following figures have rotational symmetry of order more than 1:



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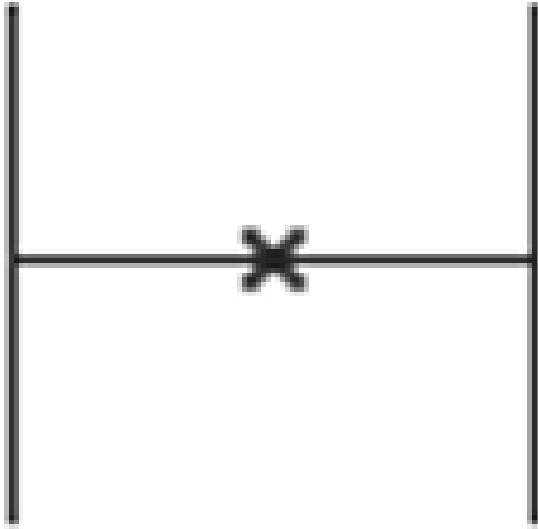
57. Which of the following figures have rotational symmetry of order more than 1:





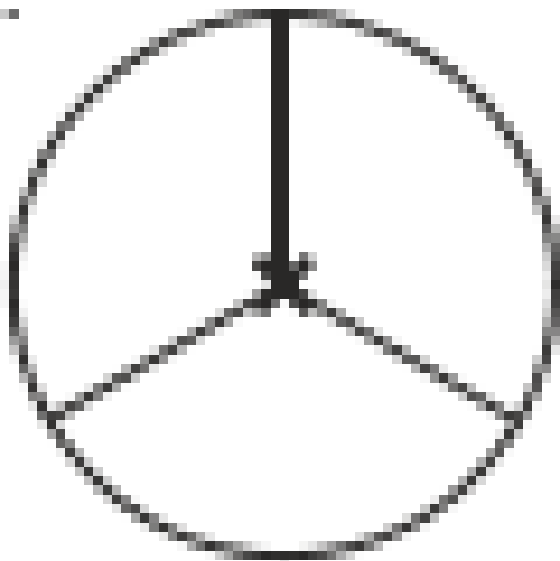
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58. Which of the following figures have rotational symmetry of order more than 1:



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59. Which of the following figures have rotational symmetry of order more than 1:



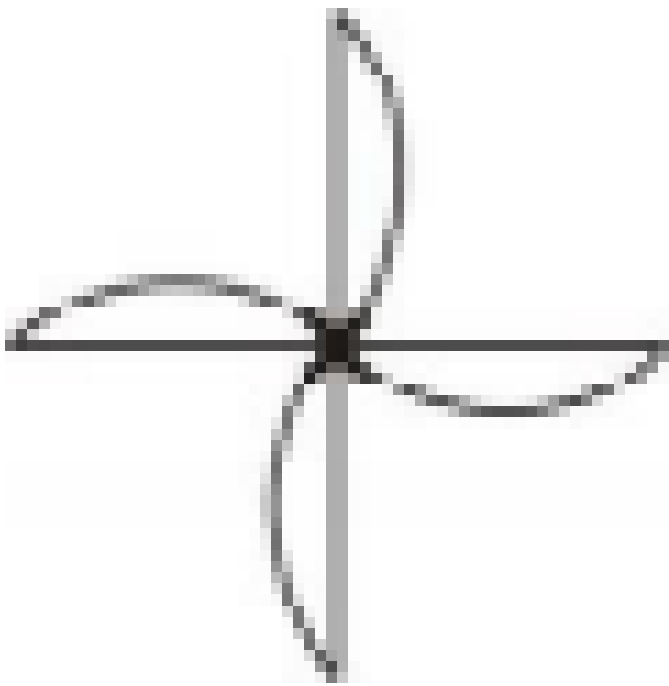
2

(e)



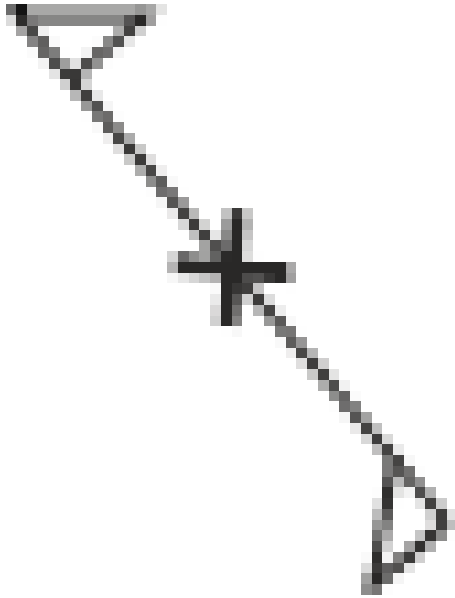
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60. Which of the following figures have rotational symmetry of order more than 1:



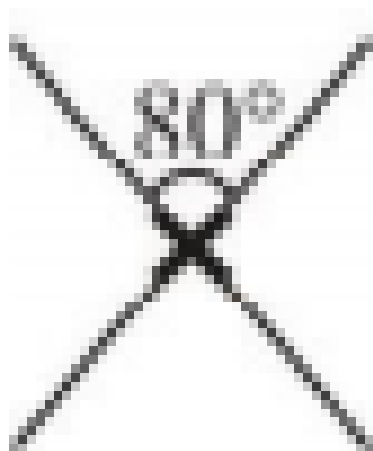
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61. Give the order of rotational symmetry for each figure:



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62. Give the order of rotational symmetry for each figure:

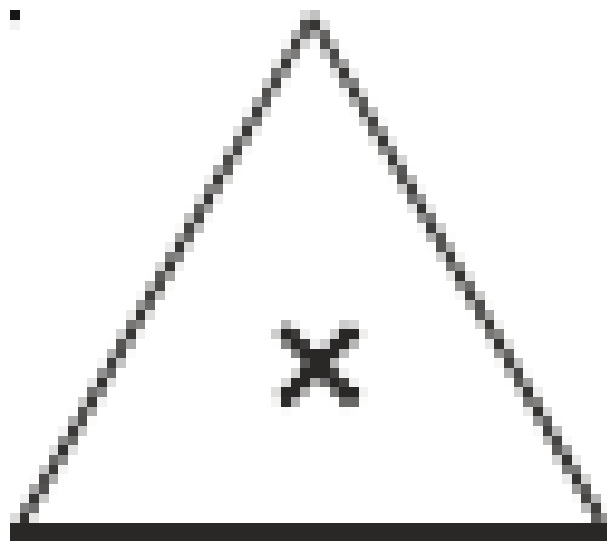


(b)



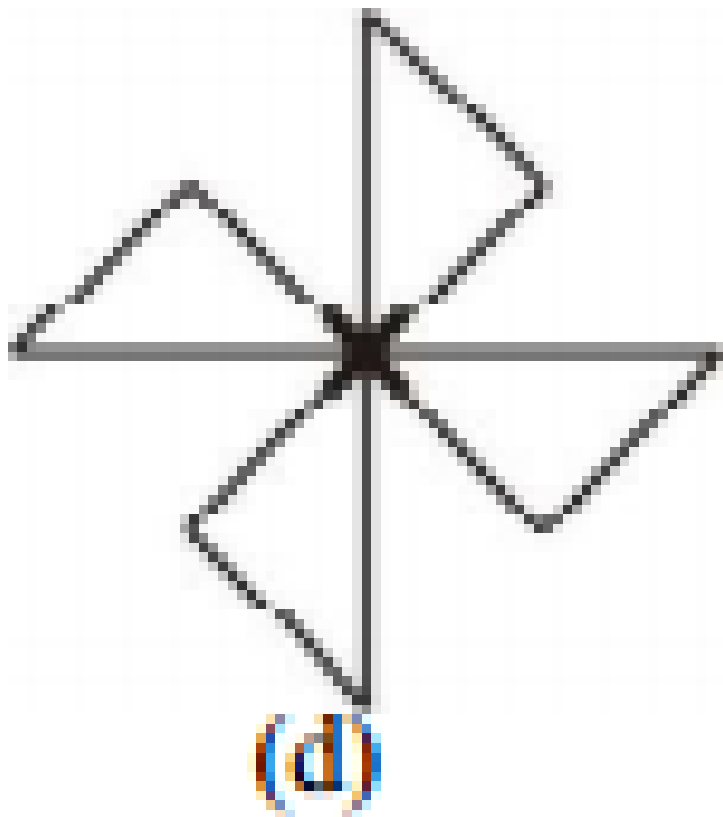
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63. Give the order of rotational symmetry for each figure:



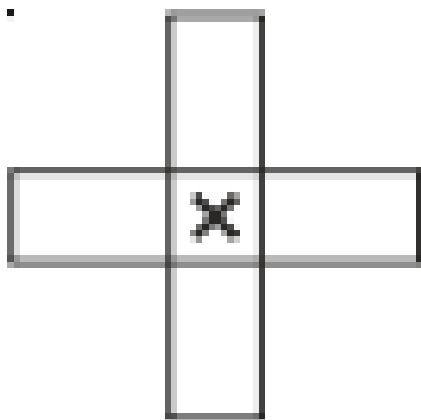
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64. Give the order of rotational symmetry for each figure:



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65. Give the order of rotational symmetry for each figure:

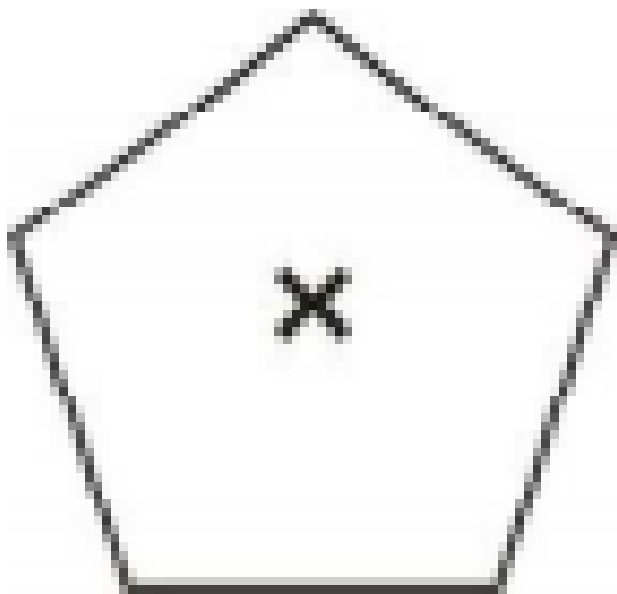


(e)



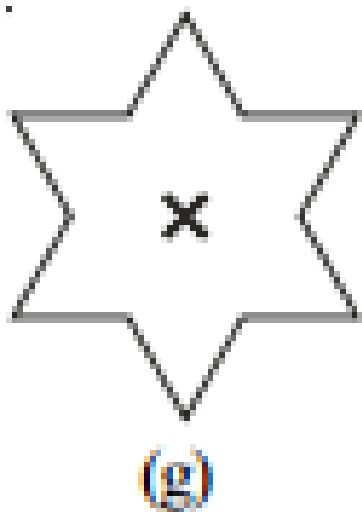
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66. Give the order of rotational symmetry for each figure:



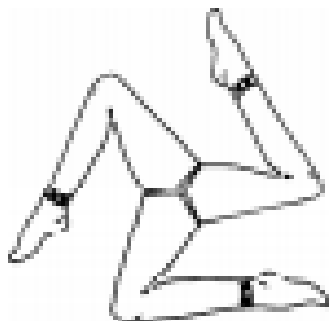
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67. Give the order of rotational symmetry for each figure:



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68. Give the order of rotational symmetry for each figure:



(h)



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69. Name any two figures that have both line symmetry and rotational symmetry.



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70. Draw, wherever possible, a rough sketch of a triangle with both line and rotational symmetries of order more than 1.



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71. Draw, wherever possible, a rough sketch of a triangle with only line symmetry and no rotational symmetry of order more than 1.





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72. Draw, wherever possible, a rough sketch of a quadrilateral with a rotational symmetry of order more than 1 but not a line symmetry



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73. Draw, wherever possible, a rough sketch of a quadrilateral with line symmetry but not a rotational symmetry of order more than 1.



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74. If a figure has two or more lines of symmetry, should it have rotational symmetry of order more than 1



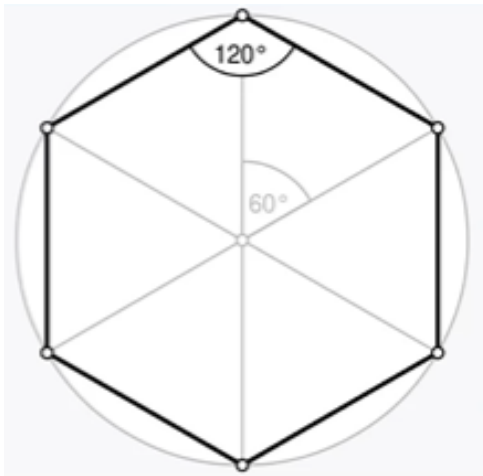
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75. Name the quadrilaterals which have both line and rotational symmetry of order more than 1



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76. After rotating by 60° about a centre, a figure looks exactly the same as its original position. At what other angles will this happen for the figure



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77. Can we have a rotational symmetry of order more than 1 whose angle of rotation is 45° ?



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78. Can we have a rotational symmetry of order more than 1 whose angle of rotation is 17° ?



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