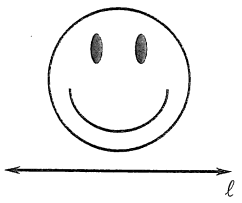
LESSON 7.2

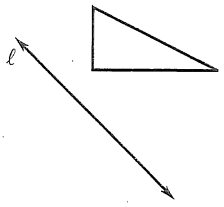
NAME _____ DATE _____

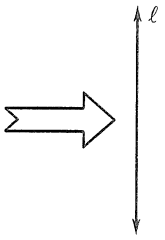
Practice B

For use with pages 404–410

Trace the figure and draw its reflection in the line ℓ.

1. 

2. 

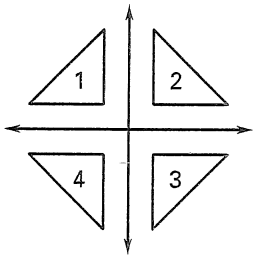
3. 

Decide whether the conclusion is *true* or *false*.

4. If $M(2, 3)$ is reflected in the line $y = 4$, then M' is $(6, 3)$.
5. If $N(-3, 1)$ is reflected in the line $y = -2$, then N' is $(-1, 1)$.
6. If $P(0, -2)$ is reflected in the line $x = 2$, then P' is $(0, 6)$.
7. If $Q(4, -3)$ is reflected in the line $x = 2$, then Q' is $(0, -3)$.

Use the diagram at the right to name the image of $\triangle 1$ after the reflection.

8. Reflection in the x-axis
9. Reflection in the y-axis
10. Reflection in the line $y = x$
11. Reflection in the line $y = -x$
12. Reflection in the y-axis, followed by a reflection in the x-axis

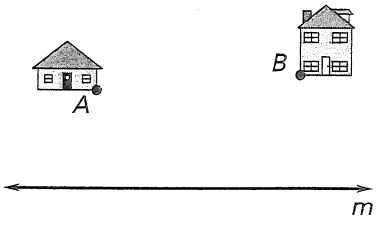


Sketch the figure, if possible.

13. A triangle with exactly two lines of symmetry
14. A quadrilateral with exactly two lines of symmetry
15. A pentagon with exactly two lines of symmetry
16. A hexagon with exactly two lines of symmetry

Use the diagram at the right to answer the following.

17. Underground cable is to be laid so that two new homes may have electricity. Where along the road (line m) should the transformer box be placed so that there is a minimum distance from the box to each of the homes?
18. Measure the minimum distance to the nearest tenth of a centimeter.



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