Determine whether the light figure maps onto the darker figure by a reflection in line $m$.

1. 

2. 

3. 

Use the diagram at the right to complete the statement.

4. $AB \rightarrow ?$
5. $AD \rightarrow ?$
6. $\angle D \rightarrow ?$
7. $\angle EBA \rightarrow ?$
10. figure $ADEB \rightarrow$ figure $?$

Trace the figure and draw its reflection in the line $\ell$.

11. 
12. 
13. 

Find the coordinates of the reflection without using a coordinate plane. Then check your answer by plotting the image and preimage on a coordinate plane.

14. $M(4, 2)$ is reflected in the $x$-axis.
15. $N(3, 5)$ is reflected in the $x$-axis.
16. $O(5, 1)$ is reflected in the $y$-axis.
17. $P(3, 0)$ is reflected in the $y$-axis.

Sketch the figure, if possible.

18. A triangle with exactly one line of symmetry
19. A trapezoid with exactly one line of symmetry
20. A pentagon with exactly one line of symmetry
21. A hexagon with exactly two lines of symmetry