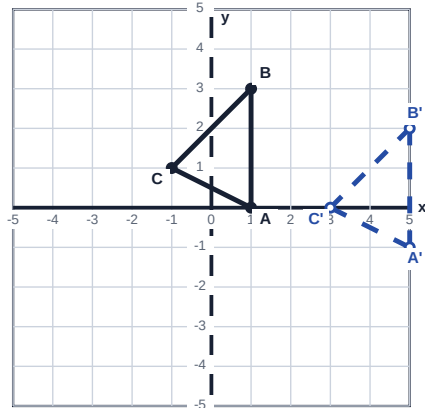


Identify Transformations

Study each labeled original and image. Write the type of transformation and a rule that explains it.

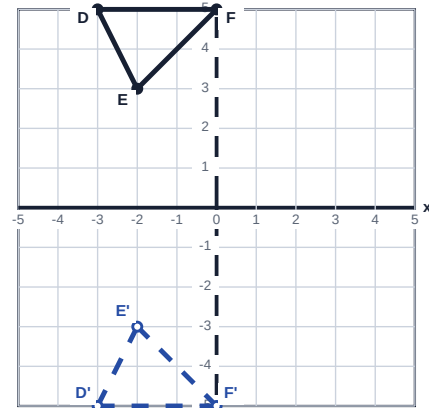
Identify each transformation

1. Which transformation maps solid ABC to dashed A'B'C'? Write a type and a rule.



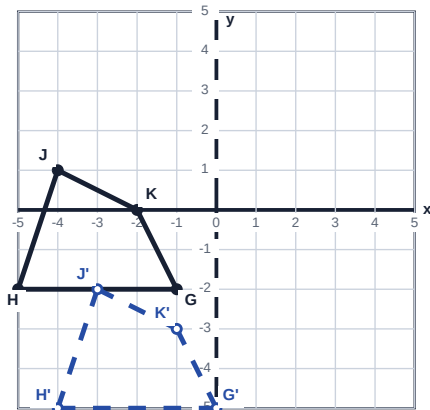
Type: _____ Rule: _____

2. Which transformation maps solid DEF to dashed D'E'F'? Write a type and a rule.



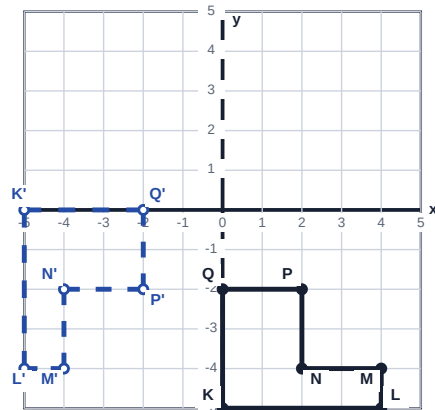
Type: _____ Rule: _____

3. Which transformation maps solid GHJK to dashed G'H'J'K'? Write a type and a rule.



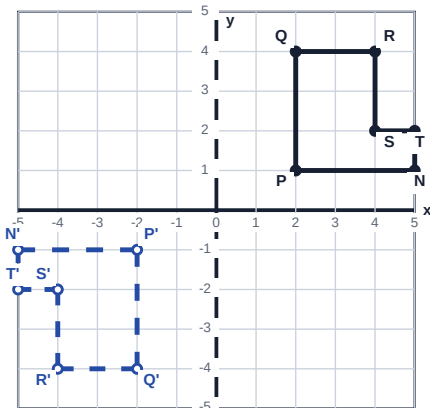
Type: _____ Rule: _____

4. Which transformation maps solid KLMNPQ to dashed K'L'M'N'P'Q'? Write a type and a rule.



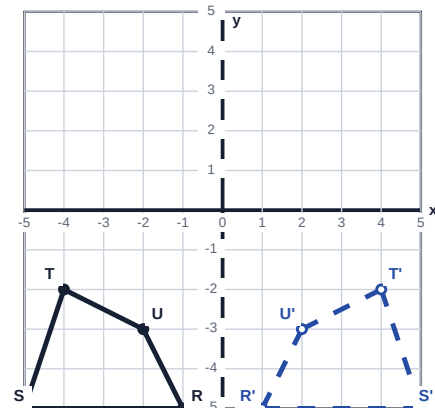
Type: _____ Rule: _____

5. Which transformation maps solid NPQRST to dashed N'P'Q'R'S'T'? Write a type and a rule.



Type: _____ Rule: _____

6. Which transformation maps solid RSTU to dashed R'S'T'U'? Write a type and a rule.



Type: _____ Rule: _____

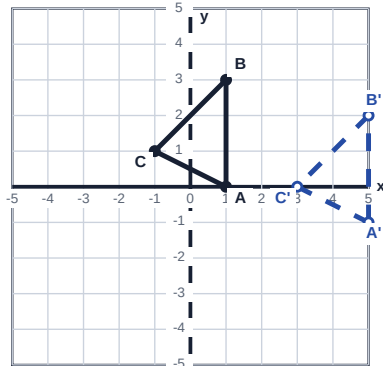
Identify Transformations

Worked Answer Key

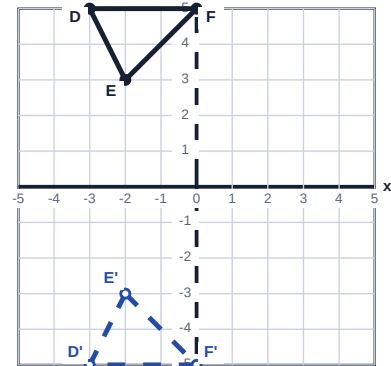
Study each labeled original and image. Write the type of transformation and a rule that explains it.

Solutions

1. Which transformation maps solid ABC to dashed A'B'C'? Write a type and a rule.

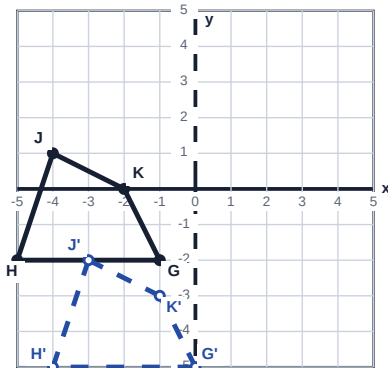
Translation. $(x, y) \rightarrow (x + 4, y - 1)$

2. Which transformation maps solid DEF to dashed D'E'F'? Write a type and a rule.

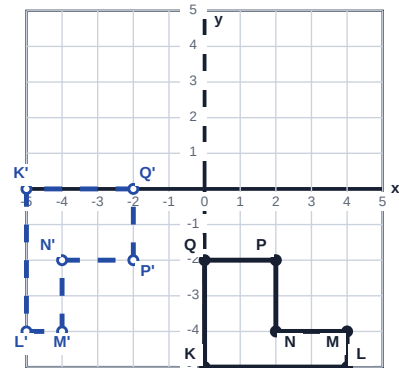


Reflection. Reflect across the x-axis.

3. Which transformation maps solid GHJK to dashed G'H'J'K'? Write a type and a rule.

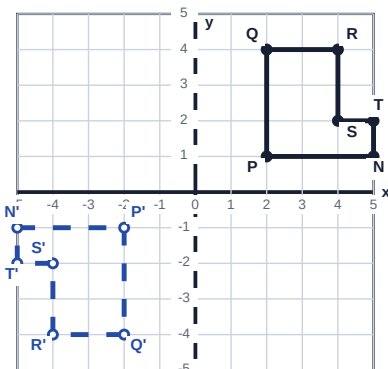
Translation. $(x, y) \rightarrow (x + 1, y - 3)$

4. Which transformation maps solid KLMNPQ to dashed K'L'M'N'P'Q'? Write a type and a rule.



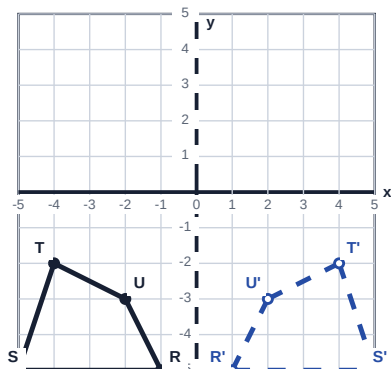
Rotation. Rotate 90 degrees clockwise about the origin.

5. Which transformation maps solid NPQRST to dashed N'P'Q'R'S'T'? Write a type and a rule.



Rotation. Rotate 180 degrees clockwise about the origin.

6. Which transformation maps solid RSTU to dashed R'S'T'U'? Write a type and a rule.



Reflection. Reflect across the y-axis.