Leaping Lizards Observations

What is a Pre-image?

What is the Image?

Lazy Lizard – translation observations

Lunging Lizard – rotation observations

Leaping Lizard – reflection observations

How are these transformations similar?

How are they different?

|  |  |  |
| --- | --- | --- |
| Transformation | Rule/Notation | Characteristics |
| Translation given right/left h units, up/down k units | $$(x,y)\rightarrow $$ |  |
| $90°$ counterclockwise rotation about the origin | $$(x,y)\rightarrow $$ |  |
| $90°$ Clockwise rotation about the origin | $$(x,y)\rightarrow $$ |  |
| $180°$ Rotation about the origin | $$(x,y)\rightarrow $$ |  |
| Reflection across the *y*-axis | $$(x,y)\rightarrow $$ |  |
| Reflection across the *x*-axis | $$(x,y)\rightarrow $$ |  |
| Reflection across the line $y=x$ | $$(x,y)\rightarrow $$ |  |