|  |  |
| --- | --- |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Transformations

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N | L | W | D | D | E | **C** | S | **E** | **G** | **A** | **M** | **I** | **E** | **R** | **P** | M | M | G | G | J | L | F | H |
| **E** | Z | T | A | U | T | A | **O** | O | C | I | R | J | K | K | Y | E | A | S | K | S | P | J | U |
| **V** | V | S | Y | V | D | F | I | **U** | K | J | I | M | J | **D** | **I** | **G** | **I** | **R** | L | J | G | P | C |
| **I** | P | O | D | V | C | S | U | Z | **N** | M | V | T | N | R | X | A | L | M | M | P | Z | Q | H |
| **T** | I | Q | B | A | C | M | **E** | H | F | **T** | W | X | S | Q | C | F | W | I | J | C | J | O | L |
| **I** | Q | T | Q | Y | Z | **P** | D | **S** | E | U | **E** | **T** | **A** | **N** | **I** | **D** | **R** | **O** | **O** | **C** | I | P | V |
| **S** | Q | H | F | Y | Z | **I** | H | C | **I** | K | **Y** | **R** | E | J | **U** | **P** | O | **S** | P | W | C | J | R |
| **O** | H | I | V | G | N | **L** | Z | I | V | **W** | H | **R** | **C** | J | A | V | X | **T** | R | D | O | F | O |
| **P** | P | P | M | A | I | **F** | S | M | B | G | **K** | L | **T** | **L** | S | Y | R | **I** | L | K | C | R | T |
| U | E | **N** | L | L | U | **S** | **I** | **X** | **A** | **X** | O | **C** | L | **E** | **O** | E | M | **N** | C | D | G | H | C |
| **N** | P | **O** | H | J | W | E | V | O | B | Z | Q | M | **O** | Y | **M** | **C** | V | **U** | Z | H | F | T | Z |
| **O** | J | **I** | E | **E** | **N** | **O** | **G** | **Y** | **L** | **O** | **P** | Z | F | **L** | F | **O** | **K** | Q | L | A | E | N | E |
| **I** | X | **T** | L | **N** | **E** | **G** | **A** | **T** | **I** | **V** | **E** | F | N | C | **C** | B | **S** | **W** | P | A | **E** | G | O |
| **T** | Z | **C** | O | **A** | **N** | **I** | **N** | **E** | **T** | **Y** | **D** | **E** | **G** | **R** | **E** | **E** | **S** | **I** | **I** | **R** | D | X | G |
| **A** | E | **E** | G | **L** | A | Z | V | K | P | K | X | I | F | **S** | D | **T** | R | R | **U** | **S** | Y | Q | W |
| **T** | B | **L** | H | **P** | Y | **E** | V | I | E | Z | P | I | P | **H** | U | X | **F** | **G** | J | U | **E** | J | K |
| **O** | N | **F** | F | K | **M** | J | A | I | T | A | G | W | U | **R** | V | T | **I** | **E** | N | Z | A | L | S |
| **R** | L | **E** | Q | **I** | B | K | U | D | W | **D** | T | E | **T** | **I** | A | **F** | Q | V | **L** | X | L | A | F |
| E | Z | **R** | **R** | N | G | I | Q | R | D | J | **O** | B | **U** | **N** | C | F | D | R | Z | B | X | S | S |
| I | W | **P** | Y | **N** | **O** | **I** | **T** | **A** | **L** | **I** | **D** | **W** | **R** | **K** | **S** | R | I | **N** | **I** | **G** | **I** | **R** | **O** |
| B | G | P | D | J | W | B | **E** | **D** | **I** | **L** | **S** | P | **N** | U | **I** | Q | T | O | C | X | C | Q | W |
| X | C | W | **E** | **N** | **L** | **A** | **R** | **G** | **E** | L | P | R | G | G | **X** | O | J | Y | L | A | Q | E | G |
| **T** | **R** | **A** | **N** | **S** | **L** | **A** | **T** | **I** | **O** | **N** | M | J | T | N | **A** | H | B | **R** | **I** | **G** | **H** | **T** | B |
| N | P | H | X | S | B | C | X | U | D | X | Z | P | A | I | **Y** | Y | N | O | W | E | W | G | T |

   counterclockwise       clockwise       units       prime       plane       down       up       left       right       positive       negative       pre-image       figure       polygon       rigid       origin       ninetydegrees       coordinate       y axis       enlarge       shrink       dilation       isometry       x axis       turn       reflection       flip       rotation       translation       slide