|  |
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| **Day 2 Homework** |

 **Graph the image of the figure using the transformation given write the algebraic rule and as requested write a specific verbal description or vector***.*

**

translation: < 1, -2 >

Algebraic Rule:

Vector:

Algebraic Rule:

Vector:

**

Algebraic Rule:

Description:

Algebraic Rule:

Vector:

translation: < 0, 3 >

**

Algebraic Rule:

Description:

Algebraic Rule:

Vector:

**Find the coordinates of the vertices of each figure after the given transformation and write the algebraic rule.**

7) Translation: 2 units left and 1 unit down 8) Translation: 2 units down
 Q(0, -1), D(-2, 2), V(2, 4), J(3, 0) D(-4, 1), A(-2, 5), S(-1, 4), N(-1, 2)

Vertices:

Algebraic Rule:

Vertices:

Algebraic Rule:

9) Translation: < -4, 4 **>**  10) Translation: 3 units right and 4 units up
 J(-1, -2), A(-1, 0), N(3, -3) Z(-4, -3), I(-2, -2), V(-2, -4)

Vertices:

Algebraic Rule:

Vertices:

Algebraic Rule:

*­­­­*

 **Write a specific description of each transformation and give the algebraic rule.**

**

Description:

Algebraic Rule:

­­­­­Description:

Algebraic Rule:

**

Description:

Algebraic Rule:

Description:

Algebraic Rule:

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| **Day 3 – Homework** |

 **Graph the image of the figure using the transformation given. Also, give the coordinates of the image, the algebraic rule, and the proper notation for the transformation.**

**

Coordinates:

Algebraic Rule:

Notation:

Coordinates:

Algebraic Rule:

Notation:

*

*

Coordinates:

Algebraic Rule:

Notation:

Coordinates:

Algebraic Rule:

Notation:

Coordinates:

Algebraic Rule:

Notation:

Coordinates:

Algebraic Rule:

Notation:

**Identify the coordinates of the vertices for each figure after the given transformation. Also, give the algebraic rule for each transformation.**

7) rotation 180° about the origin 8) rotation 180° about the origin
 Z(-1, -5), K(-1, 0), C(1, 1), N(3, -2) L(1, 3), Z(5, 5), F(4, 2)

9) rotation 90° clockwise about the origin 10) rotation 180° about the origin
 S(1, -4), W(1, 0), J(3, -4) V(-5, -3), A(-3, 1), G(0, -3)

Vertices:

Algebraic Rule:

Vertices:

Algebraic Rule:

Vertices:

Algebraic Rule:

Vertices:

Algebraic Rule:

**Write a specific description of each transformation AND give the algebraic rule.**

**

Description:

Algebraic Rule:

Description:

Algebraic Rule:

**

Description:

Algebraic Rule:

Description:

Algebraic Rule: