John Kiyak

Assignment 2

Data Visualization

Question 2

Point to Origin

|  |  |  |
| --- | --- | --- |
| 1 | 0 | -2 |
| 0 | 1 | -2 |
| 0 | 0 | 1 |

Origin to Scale

|  |  |  |
| --- | --- | --- |
| 2 | 0 | 0 |
| 0 | 2 | 0 |
| 0 | 0 | 1 |

Origin to Final Spot

|  |  |  |
| --- | --- | --- |
| 1 | 0 | 2 |
| 0 | 1 | 2 |
| 0 | 0 | 1 |

Final:

|  |  |  |
| --- | --- | --- |
| 2 | 0 | 2 |
| 0 | 2 | 2 |
| 0 | 0 | 1 |

Question 3:

Move to Origin:

|  |  |  |
| --- | --- | --- |
| 1 | 0 | -3 |
| 0 | 1 | -2 |
| 0 | 0 | 1 |

Scale:

|  |  |  |
| --- | --- | --- |
| 2 | 0 | 0 |
| 0 | 2 | 0 |
| 0 | 0 | 1 |

Origin to Move:

|  |  |  |
| --- | --- | --- |
| 1 | 0 | 2 |
| 0 | 1 | 3 |
| 0 | 0 | 1 |

Final:

|  |  |  |
| --- | --- | --- |
| 2 | 0 | 2 |
| 0 | 2 | 3 |
| 0 | 0 | 1 |

Question 5:

Rotate 90 degrees:

|  |  |  |
| --- | --- | --- |
| 0 | 0 | 8 |
| 0 | 8 | 0 |
| 1 | 0 | 0 |

Scale:

|  |  |  |
| --- | --- | --- |
| 1/2 | 0 | 0 |
| 0 | 1/2 | 0 |
| 0 | 0 | 1 |

Final:

|  |  |  |
| --- | --- | --- |
| 0 | 0 | 0 |
| 0 | 4 | 0 |
| 0 | 0 | 1 |

Question 6:

Rotate 90 degrees:

|  |  |  |
| --- | --- | --- |
| 0 | 0 | 8 |
| 0 | 8 | 0 |
| 1 | 0 | 0 |

Scale:

|  |  |  |
| --- | --- | --- |
| 1/2 | 0 | 0 |
| 0 | 1/2 | 0 |
| 0 | 0 | 1 |

Final:

|  |  |  |
| --- | --- | --- |
| 0 | 0 | 0 |
| 0 | 4 | 0 |
| 0 | 0 | 1 |