Haonan Hu

4/29/2021

2863545

**A picture containing table

Description automatically generated**

1. **a. N(s)=**

|  |  |  |  |
| --- | --- | --- | --- |
| **1** |  |  |  |
| **1** |  |  |  |
| **1** | **1** |  |  |
| **1** |  |  |  |

**1.b.**

|  |  |  |  |
| --- | --- | --- | --- |
| **K** | **S** | **R** | **G(s)** |
| **1** | **12** | **-1** | **-4.0951** |
| **2** | **8** | **-1** | **-3.439** |
| **3** | **9** | **-1** | **-2.71** |
| **4** | **8** | **-1** | **-1.9** |
| **5** | **4** | **-1** | **-1** |
| **6** | **t** | **-1** | **0** |

**S(s)**

|  |  |  |  |
| --- | --- | --- | --- |
| **0** |  |  |  |
| **-1** |  |  |  |
| **-3.439** | **-2.71** |  |  |
| **-4.0951** |  |  |  |

**1.c. V(s)**

|  |  |  |  |
| --- | --- | --- | --- |
| **0** |  |  |  |
| **-1** |  |  |  |
| **-3.439** | **-2.71** |  |  |
| **-4.0951** |  |  |  |

1. **a N(s)**

|  |  |  |  |
| --- | --- | --- | --- |
| **1** |  |  |  |
| **1** |  |  |  |
| **2** | **1** |  |  |
| **1** |  |  |  |

**2.b**

|  |  |  |  |
| --- | --- | --- | --- |
| **K** | **S** | **R** | **G(s)** |
| **1** | **12** | **-1** | **-4.0951** |
| **2** | **8** | **-1** | **-3.439** |
| **3** | **9** | **-1** | **-2.71** |
| **4** | **8** | **-1** | **-1.9** |
| **5** | **4** | **-1** | **-1** |
| **6** | **t** | **-1** | **0** |

**S(s)**

|  |  |  |  |
| --- | --- | --- | --- |
| **0** |  |  |  |
| **-1** |  |  |  |
| **-5.339** | **-2.71** |  |  |
| **-4.0951** |  |  |  |

**2.c**

**V(s)**

|  |  |  |  |
| --- | --- | --- | --- |
| **0** |  |  |  |
| **-1** |  |  |  |
| **-2.6695** | **-2.71** |  |  |
| **-4.0951** |  |  |  |