

Name: _____

Hour: _____

Discrete Math

Unit 3 Homework Log

This sheet will be collected on test days each chapter in order to earn points for homework for the chapter. DO NOT LOSE THIS SHEET and DO NOT THROW AWAY HOMEWORK ASSIGNMENTS!

| Learning Targets | Rate Yourself | Checked In? |
|--|---|---------------------|
| <p>3.1 – Modeling with Graphs I can:</p> <ul style="list-style-type: none"> Use graphs to model situations where the vertices represent objects and edges represent a particular relationship between objects. | <p>Rate your understanding of content in this lesson.</p> <p>Low High</p> <p>1 2 3 4 5</p> | Homework: Pages 1-2 |
| <p>3.2 – The Definition of a Graph I can:</p> <ul style="list-style-type: none"> Draw graphs given information about vertices and edges. Create an adjacency matrix based off a graph and vice versa. | <p>Rate your understanding of content in this lesson.</p> <p>Low High</p> <p>1 2 3 4 5</p> | Homework: Pages 3-4 |
| <p>3.3 – Handshake Problems I can:</p> <ul style="list-style-type: none"> Solve problems that use the relationship between the number of edges in a graph and the total degree. | <p>Rate your understanding of content in this lesson.</p> <p>Low High</p> <p>1 2 3 4 5</p> | Homework: Pages 5-6 |

| | | |
|--|---|------------------------------|
| <p>3.4 – The Konigsberg Bridge Problem</p> <p>I can:</p> <ul style="list-style-type: none"> • Draw a graph that has an Euler circuit. • Determine whether or not a graph is connected. • Determine whether or not a graph that has an Euler circuit. | <p>Rate your understanding of content in this lesson.</p> <p>Low High</p> <p>1 2 3 4 5</p> | <p>Homework: Pages 7-8</p> |
| <p>3.5 – Hamiltonian Circuits and Graph Coloring</p> <p>I can:</p> <ul style="list-style-type: none"> • Identify Hamiltonian circuits. • Determine a graph's chromatic number. | <p>Rate your understanding of content in this lesson.</p> <p>Low High</p> <p>1 2 3 4 5</p> | <p>Homework: Page 9-10</p> |
| <p>3.6 – The Traveling Salesperson Problem/Finding the Shortest Route</p> <p>I can:</p> <ul style="list-style-type: none"> • Optimize a weighted graph. | <p>Rate your understanding of content in this lesson.</p> <p>Low High</p> <p>1 2 3 4 5</p> | <p>Homework: Pages 11-12</p> |