Name:
MA111 - Quiz \#2
Friday, September 18

1. For the distance table shown below, find a tour using the Nearest-Neighbor Algorithm, starting with $A$, and give its total cost.

|  | $A$ | $B$ | $C$ | $D$ |
| :---: | :---: | :---: | :---: | :---: |
| $A$ | - | 48 | 28 | 22 |
| $B$ | 48 | - | 32 | 20 |
| $C$ | 28 | 32 | - | 18 |
| $D$ | 22 | 20 | 18 | - |

2. Consider the following graph:

(a) List all of the Hamilton paths.
(b) Using $A$ as a reference point, list all of the Hamilton circuits.
