## MA111 — Quiz #2 Solutions

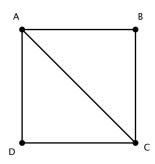
Friday, September 18

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

	$\mid A \mid$	B	C	D
$\overline{A}$	_	48		
B	48	_	32	20
C	28		_	18
D	22	20	18	_

A, D, C, B, A with cost 120.

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. A,B,C,D,A; A,D,C,B,A.