

CISC320 Algorithms, Homework set 3  
Due Thursday, Nov 4, 2010

1. 6-1. Answer each part with respect to the graph on the left in problem 5-1 (pg 185) [We used the graph on the right in class.]
2. 6-2. If giving a counterexample, give a *smallest possible* counterexample.
3. 6-6 or 6.7
4. 6-9. Assume  $T$  is a minimum weight connected *spanning* subset of edges.

Extra credit: 6.11 or 6.13 (for 6.11, correction: The runtime goal is time  $O(m + n \log(k))$ , not just  $O(n \log(k))$ .)