



**Figure 7.11** (a) A minimum cut in proof of (7.40). (b) The same cut after moving node  $y$  to the  $A'$  side. The edges crossing the cut are dark.

don't have to be concerned about nodes  $x \in X$  that are not in  $A$ . The two ends of the edge  $(x, y)$  will be on different sides of the cut, but this edge does not add to the capacity of the cut, as it goes from  $B'$  to  $A'$ .)

Next consider the capacity of this minimum cut  $(A', B')$  that has  $\Gamma(A) \subseteq A'$  as shown in Figure 7.11(b). Since all neighbors of  $A$  belong to  $A'$ , we see that the only edges out of  $A'$  are either edges that leave the source  $s$  or that enter the sink  $t$ . Thus the capacity of the cut is exactly

$$c(A', B') = |X \cap B'| + |Y \cap A'|.$$

Notice that  $|X \cap B'| = n - |A|$ , and  $|Y \cap A'| \geq |\Gamma(A)|$ . Now the assumption that  $c(A', B') < n$  implies that

$$n - |A| + |\Gamma(A)| \leq |X \cap B'| + |Y \cap A'| = c(A', B') < n.$$

Comparing the first and the last terms, we get the claimed inequality  $|A| > |\Gamma(A)|$ . ■

## 7.6 Disjoint Paths in Directed and Undirected Graphs

In Section 7.1, we described a flow  $f$  as a kind of "traffic" in the network. But our actual definition of a flow has a much more static feel to it: For each edge  $e$ , we simply specify a number  $f(e)$  saying the amount of flow crossing  $e$ . Let's see if we can revive the more dynamic, traffic-oriented picture a bit, and try formalizing the sense in which units of flow "travel" from the source to

# Manual Algorithm Design Tardos

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