

Destination	Distance	Route
Net 1	0	direct
Net 2	0	direct
Net 4	8	Router L
Net 17	5	Router M
Net 24	6	Router J
Net 30	2	Router Q
Net 42	2	Router J

(a)

Destination	Distance
Net 1	2
→ Net 4	3
Net 17	6
→ Net 21	4
Net 24	5
Net 30	10
→ Net 42	3

(b)

**Figure 12.5** (a) An existing FIB in router *K*, and (b) an incoming routing update message from router *J* that will cause changes.