## 1 Routing Protocols

Consider the network presented in Figure 1. The routers run the Distance Vector routing protocol and apply the "poisoned reverse" rule: if X sends packets to Z via Y, X announces this route to Y with the cost  $\infty$ . We assume that all the routers start to operate. Give the data structures maintained by the routers after convergence—fill in the tables below.

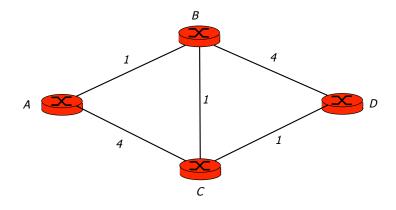


Figure 1: Network topology.

Costs of A	v	] [	Routing tables of A						Vector of A			sent to		٦		
Dest.	В	С		De		via	cos		}	•		Dest.	В	С	-	
A					A							A			1	
В					В							В				
C					С							С				
D					D							D				
Costs of B			Rout			ng tables of E			3		Vector of	sent to				
Dest.	A	С	Г	)	De	est.	via	cos	t			De	st.	A	С	D
A						A							A			
В						В					ļ		В			
C						С							С			
D						D							D			
Costs of C	via			Routing tab			les of C				Vector of C		sent to			
Dest.	A	В	Г	)	De	est.	via	cos	t			Dε	est.	A	В	D
A						A							A			
В						В							В			
С				_		С							С			
D			L,			D							D		<u> </u>	
Costs of D	via			Ro	Routing t		oles of D			V	ec	etor of D	ser	nt to		
Dest.	В	С		De		via	cos	st				Dest.	В	С		
A					A							A				
В					В							В				
$\Gamma$					С							С			_	
D					D							D				