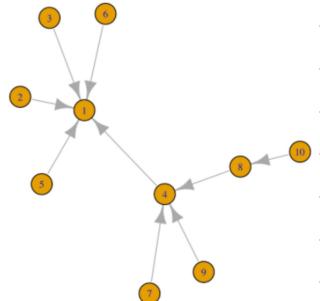
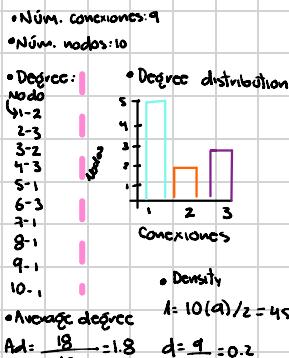
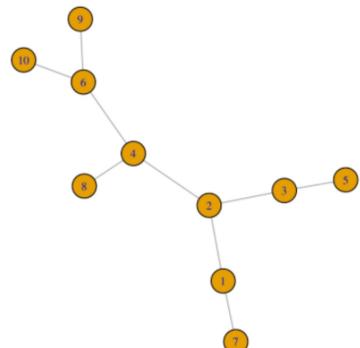
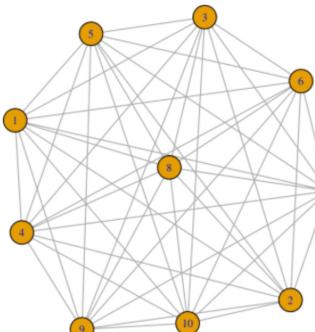
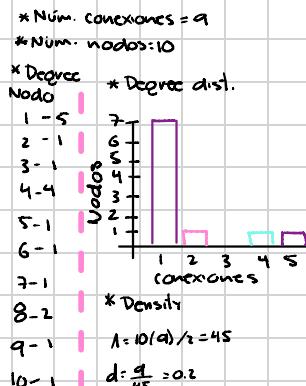


# Tarea 4 genómica funcional

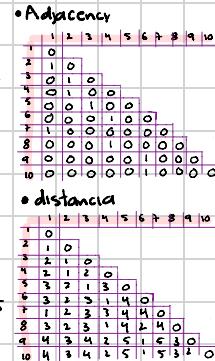
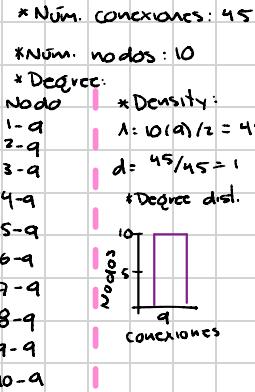
**DANIELA MICHELLE MUÑOZ NAVARRETE**



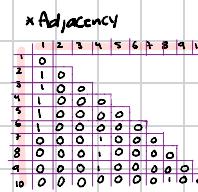
\*Average degree:



$$\text{Average degree: } Ad = \frac{90}{10} = 9$$



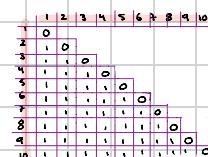
- diâmetro = 5
- Nodos mais distantes:  
5-9    5-10    7-9    7-10

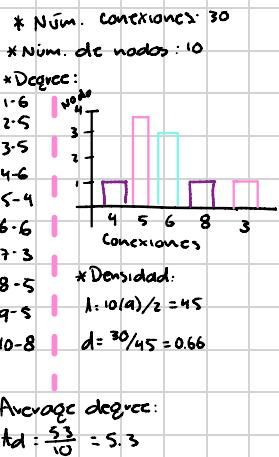
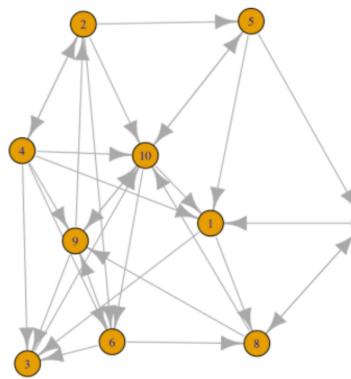


- \*diámetro: 5
- \*Nodos mas distantes:



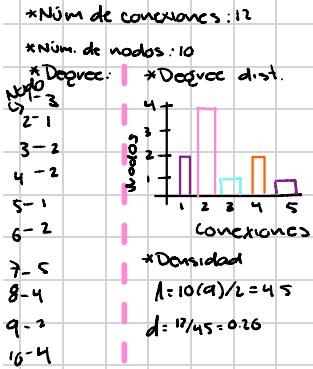
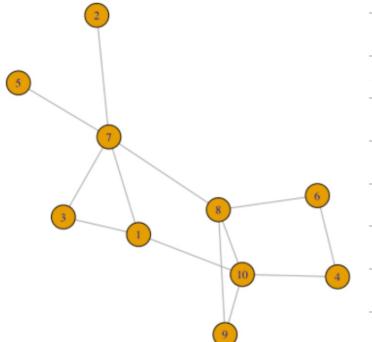
- \*Diametro: 1
- \*Nodos mas distantes:
- todos se encuentran a  
1 conexión de distancia





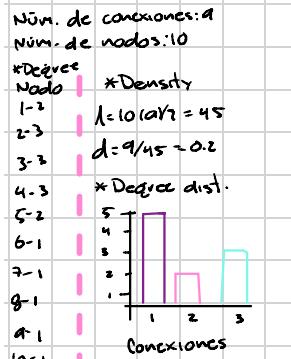
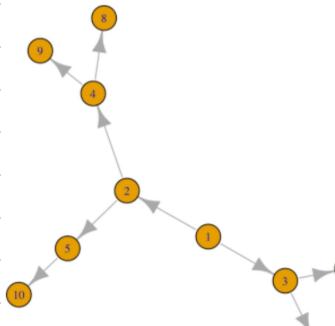
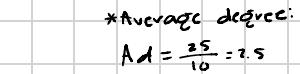
	1	2	3	4	5	6	7	8	9	10
1	0									
2	0	0								
3	1	0								
4	1	1	0							
5	1	1	1	0						
6	0	1	1	1	0					
7	0	1	1	1	1	0				
8	1	0	0	0	0	1	0			
9	0	1	0	1	0	1	0	0		
10	1	0	1	0	1	0	1	0	0	

\* Diametro: 3  
 \* Nodos mas distantes: 3-2 2-8



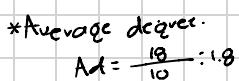
	1	2	3	4	5	6	7	8	9	10
1	0									
2	0	0								
3	1	0								
4	0	0	0							
5	0	0	0	0						
6	0	0	0	0	0					
7	0	1	0	1	0					
8	0	0	0	0	0	1				
9	0	0	0	0	0	0	0	1		
10	0	0	1	0	0	0	0	0	0	

\* Diametro: 4  
 \* Nodos más distantes: 3-4 4-5 5-1



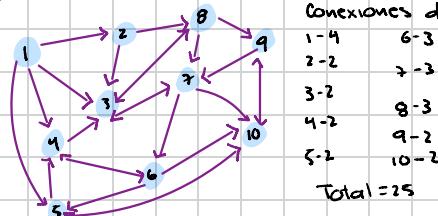
	1	2	3	4	5	6	7	8	9	10
1	0									
2	1	0								
3	1	0	0							
4	0	1	0	0						
5	0	1	0	0						
6	0	0	1	0						
7	0	0	0	1						
8	0	0	1	0						
9	0	0	0	0	1					
10	0	0	0	0	0	1				

\* Diametro: 5  
 \* Nodos más distantes: 6-8 6-9 6-10  
 7-8 7-9 7-10



## preguntas rápidas

(2)



conexiones de salida

1-4  
2-2  
3-2  
4-2  
5-2

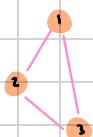
Total = 25

conexiones de entrada

1-0  
2-1  
3-5  
4-3  
5-3

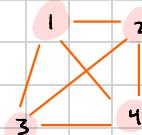
Total = 25

(3)

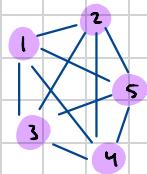


$$\lambda = 3(2)/2 = 3$$

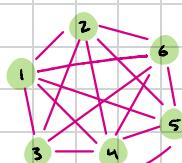
\* Mín. de conexiones



$$\lambda = 4(3)/2 = 6$$



$$\lambda = 5(4)/2 = 10$$



$$\lambda = 6(5)/2 = 15$$