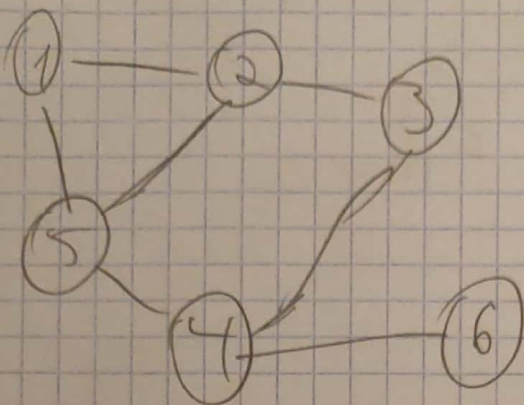


1. דף

7

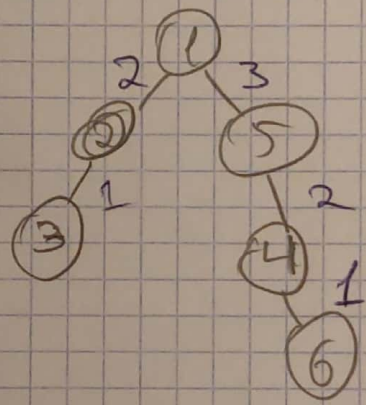
2. דף

3. דף

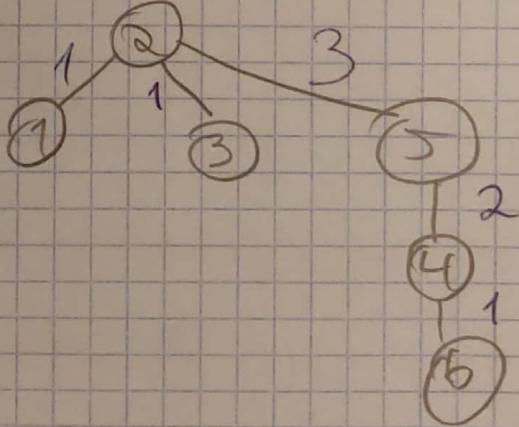


1. in betweenness = $\sum_{i,j \in V} \sigma_{ij}(v)$ BFS

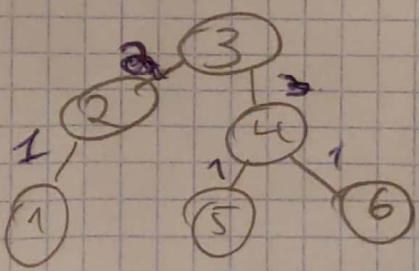
1:



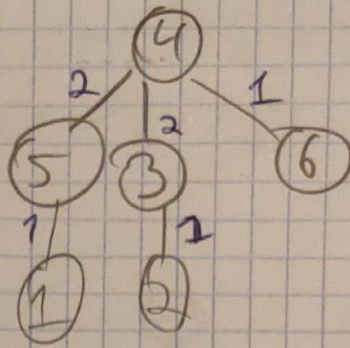
2:



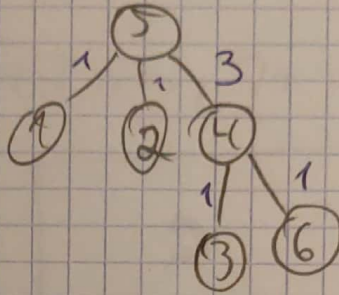
3:



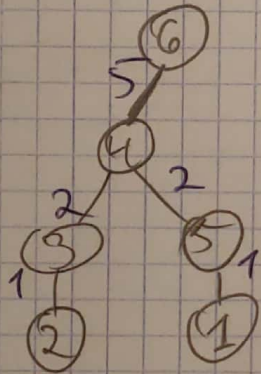
4:



5:



6:



∴ $\sum_{i,j \in V} \text{in-betweenness}(i,j) = 20$

$$E(1,2): (2+1+1)/2 = 2$$

$$E(1,5): (3+1+1)/2 = 3$$

$$E(2,5): (3+1)/2 = 2$$

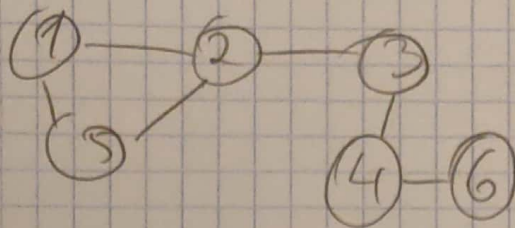
$$E(2,3): (1+1+2+1+1)/2 = 3$$

$$E(3,4): (2+2+1+2)/2 = 4$$

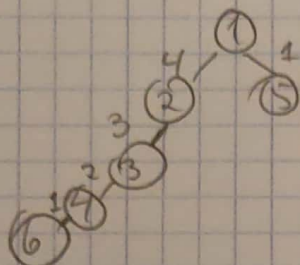
$$E(4,5): (2+2+1+2+3+2)/2 = 6$$

$$E(4,6): (1+1+1+1+1+5)/2 = 5$$

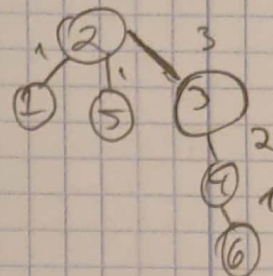
קיימים שני סוגי של קישורים: $(4,5)$ ו- $(5,6)$ (הם קישורים חזקים)
 והם שונים מהשאר (הם קישורים חלשים)



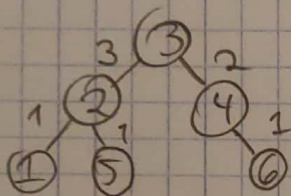
1:



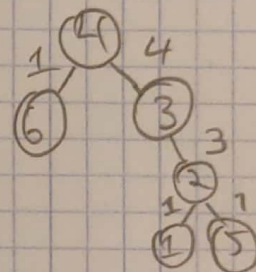
2:



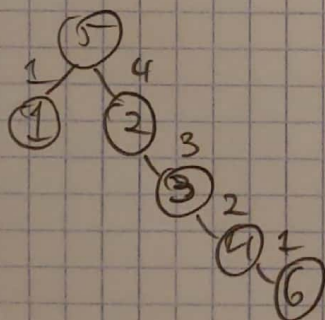
3:



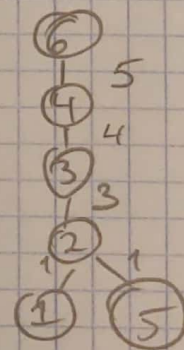
4:



5:



6:



$$E(1,2): (4 + 1 + 1 + 1 + 1)/2 = 4$$

$$E(1,5): (1 + 1)/2 = 1$$

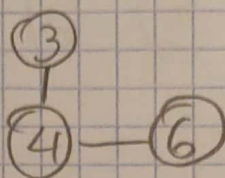
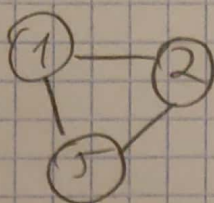
$$E(2,5): (1 + 1 + 2 + 4 + 1)/2 = 4$$

$$E(2,3): (3 + 3 + 3 + 3 + 3 + 3)/2 = 9$$

$$E(3,4): (2 + 2 + 2 + 4 + 2 + 4)/2 = 8$$

$$E(4,6): (1 + 1 + 1 + 1 + 1 + 5)/2 = 5$$

IV
 אפ"רם הקשר ביניהם כ"א-ה ה"א
 אורה וקבלה ש"ח"ב + קשריות נכונה?



ב"ד א"ח: (הפ"ח וה"ח) א"ח י"ח ש"ח + קשריות.

