

NETWORKS AND COMPLEXITY

Solution 1-2

*This is an example solution from the forthcoming book *Networks and Complexity*.*

Find more exercises at <https://github.com/NC-Book/NCB>

Ex 1.2: Number of links [1]

Consider a fully connected network with 23 nodes. How many links are there in this networks?

Solution

We can use the formula

$$K_{\max} = \frac{N(N-1)}{2} \tag{1}$$

where N is the number of nodes, so the number of links is $K_{\max} = 23 \cdot 11 = 253$.