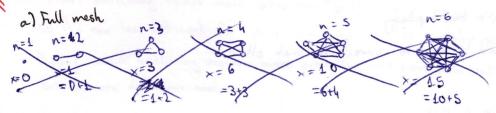
Shared Access and Medium Networks

PROBLEMS

1. FUNDAMENTALS

1.1. TOPOLOGIES. 1 2.

1.1.1. In a network with a devices, what is the number of links needed for these hopologies?



$$\times (n) = \frac{1}{n}(n-1) + (n-1) + \cdots + \frac{1}{n} + \frac{1}{n}(n-1) + (n-1) + (n-1) = n \cdot n - \frac{n}{n-1} = n^2 - \frac{n(n+1)}{2} = \frac{2n^2 - n^2 - n}{2} = \frac{n^2 - n}{2} = \frac{n(n-1)}{2}$$

b) A ring

d) A star