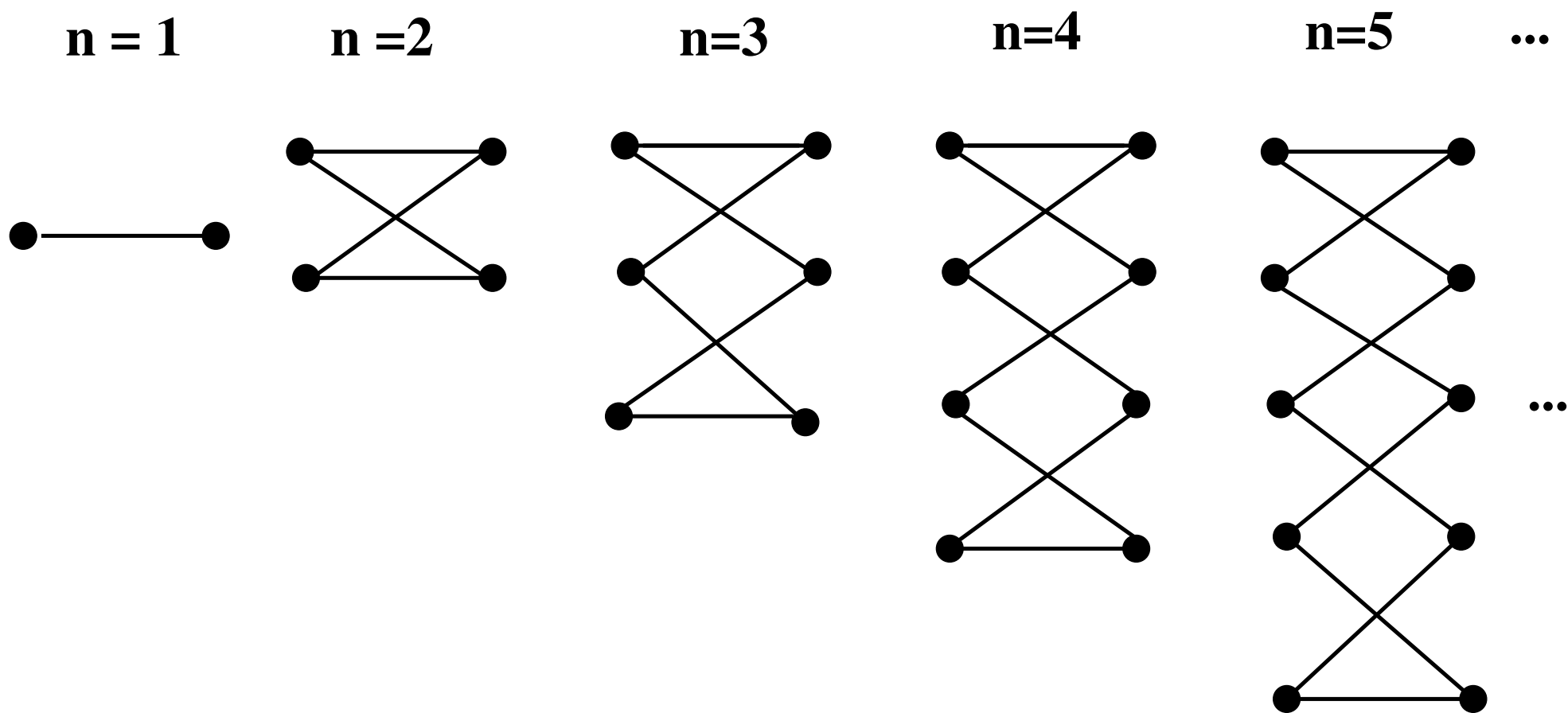


Tannenzaepfle bipartite graphs $Tz(n)$, $n=1, 2, 3, \dots$

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Vertex-vertex-matrices (also called) $Tz(n)$ for $n=1, 2, 3, 4$:

$$(1) \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix} \begin{pmatrix} 1 & 1 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 1 \end{pmatrix} \begin{pmatrix} 1 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 \end{pmatrix}$$

The determinants $\text{Det}(Tz(n)) =: a(n)$ give a sequence found as A176742 in the On-Line Encyclopedia of Integer Sequences <http://www.research.att.com/~njas/sequences>

This sequence starts like

[1, 0, -2, 0, 2, 0, -2, 0, 2, 0, -2, 0, 2, 0, -2, 0, 2, -2, 0, 2, ...] .

It has the (ordinary) generating function $G(x) = \frac{1 - x^2}{1 + x^2}$.