

**Proposition 24.11** - *Compositions de  $o$  et  $\mathcal{O}$*

Soit  $u$  et  $v$  deux suites réelles.

1.  $u_n = \mathcal{O}(\mathcal{O}(v_n)) \implies u_n = \mathcal{O}(v_n)$
2.  $u_n = o(o(v_n)) \implies u_n = o(v_n)$
3.  $u_n = \mathcal{O}(o(v_n)) \implies u_n = o(v_n)$