1078-08-245 Ralph N McKenzie* (rn.mckenzie@vanderbilt.edu). Large pseudo-varieties of finite algebras defined by Maltsev conditions.

Algebras are finite and idempotent, and of one signature σ , which is fixed. A pseudo-variety is a class of these algebras closed under homomorphic images, subalgebras and finite products. A strong pseudo-variety is a psudo-variety E such that $E \circ E = E$ where "circle" denotes Maltsev product. The equation means that whenever A is an algebra of the signature σ , and A has a congruence θ for which $A/\theta \in E$ and every subalgebra of A constituting a θ -equivalence class belongs to E, then $A \in E$. Day (the class of algebras with Day terms) and Jónsson are not pseudo-varieties, but Taylor and "few subpowers" and $SD(\wedge)$ and $SD(\vee)$ and the class of algebras belonging to an n-permutable variety for some n, are strong pseudo-varieties. We shall discuss some open problems arising from these observations. (Received December 10, 2011)