

ANN Product Approximations Approximation for simple products lemma Let  $c_{kk} \subseteq, A_{kk} \in^{4 \times 4}, B \in^{4 \times 1}, C_{kk}$  satisfy for all  $k \in$  that: align(6.0.1)  $A_k = bmatrix 2 - 420$

Finally observe that ((6.0.17)) then tells us that for all  $k \in, x \in \setminus 0, 1$  it holds that: align  $\xi_k x = -2^{-2k} g_k x + r_{4,k} x = r_{4,k} x = \max\{x, 0\} = (x)$