

11.16 The number of inner products that shall be computed are 3, two for internal values and one for the output. Hence, 3 units are needed. The first unit has 3 inputs, $x(n)$ and two branches in the recursive part, and 8 words. The second unit has 3 inputs from the first section and 2 branches from the recursive part, hence, 32 words. The last unit has only 3 inputs, 8 words.