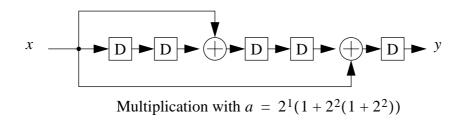
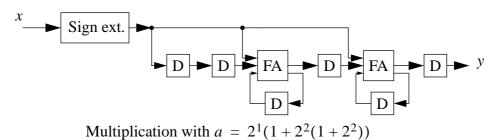
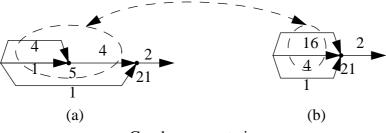
11.25 (a) $a = 2^1(1 + 2^2(1 + 2^2))$, The multiplication can be realized as follows.



(b) The normal serial/parallel multipier for the same coefficient can be realized as follows. The simplification steps for the multiplier is omitted here.



(c) The relationship for these two multipliers can be expressed with graph representation.



Graph representations

As we can see from the graph, that they are equivalent.