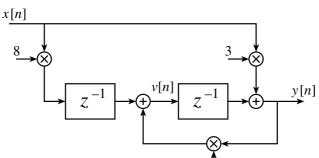
PROBLEM:

The following signal flow graph structure defines a linear time-invariant system:



- Write the two difference equations defined by the signal flow graph—one for y[n] and one for v[n].
- (b) Determine the z-transform system function H(z) from the input x[n] to the output y[n].