



No feedback: $y[n] = -g x[n] + x[n-M]$

With feedback.

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$$y[n] = -g x[n] + x_1[n-M]$$

$$x_1[n] = x[n] + g y[n]$$

$$x_1[n-M] = x[n-M] + g y[n-M]$$

$$y[n] = -g x[n] + x[n-M] + g y[n-M]$$