Ouiz #4	EE 360	Fall	2021
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Attempt and grade yourself with a pen

Show your work for credit and place boxes around your answers.

- 1. Define (in written English):
- a transformation
- 2. Draw a transposed Direct Form II block diagram for the following system described by:

$$3y[n] - \frac{3}{2}y[n-1] = 6x[n] - 9x[n-2]$$

Determine state equations in the form:

$$q[n+1] = Aq[n] + Bx[n]$$
$$y[n] = Cq[n] + Dx[n]$$

Represent your answers in matrix form.