

II. Finding $p(D)$

Quiz: Suppose $W(s) = \frac{s}{s^2 + 1}$. Find $p(D)$ so that $W(s)$ is the transfer function for the system $p(D)x = f(t)$.

Choices:

- a) $\cos(t)$
- b) $D^2 + I$
- c) $D + 1/D$
- d) It doesn't exist
- e) Can't be found with the data given

Pick what you think is the correct choice and then look at the answer.

MIT OpenCourseWare
<http://ocw.mit.edu>

18.03SC Differential Equations
Fall 2011

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.