

Here is the transition matrix for a markov chain with states  $A, B, C, D, E$ .

Which states are recurrent?

	$A$	$B$	$C$	$D$	$E$
$A$	.4	.2	.4	0	0
$B$	.999	0	0	.001	0
$C$	.7	0	.3	0	0
$D$	0	0	0	.5	.5
$E$	0	0	0	1	0