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checkpoint 1:

1	0	0	0
0	$\cos 45$	$-\sin 45$	0
0	$\sin 45$	$\cos 45$	0
0	0	0	1

checkpoint 2:

$\cos 45$	0	$\sin 45$	0
0	1	0	0
$-\sin 45$	0	$\cos 45$	0
0	0	0	1

checkpoint 3:  $t_1(1,1,2)$