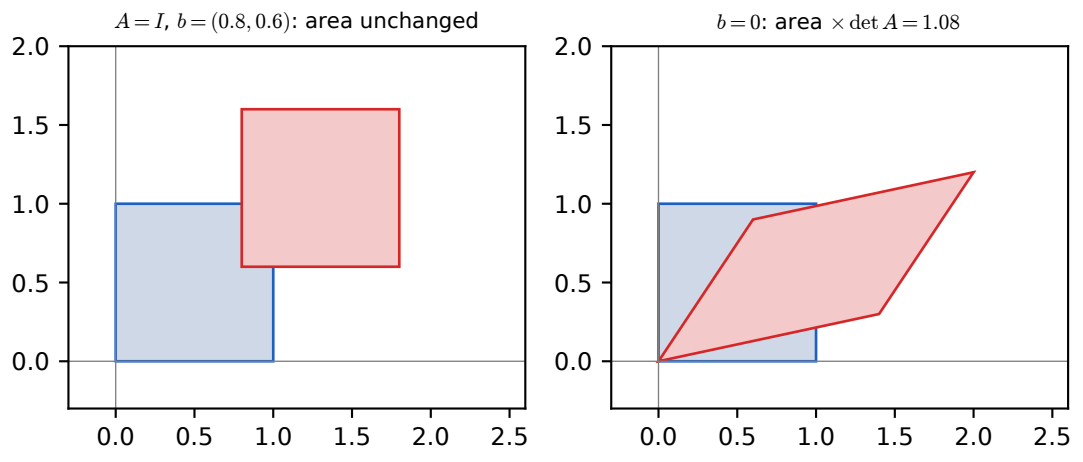

$A = I$, $b = (0.8, 0.6)$: area unchanged
$b = 0$: area $\times \det A = 1.08$
2.0
1.5
1.0
0.5
0.0
0.0
0.5
1.0
1.5
2.0
2.5